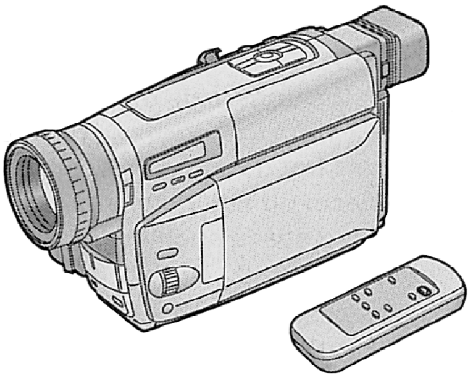
ORDER NO. VMD9912043C8

Service Manual

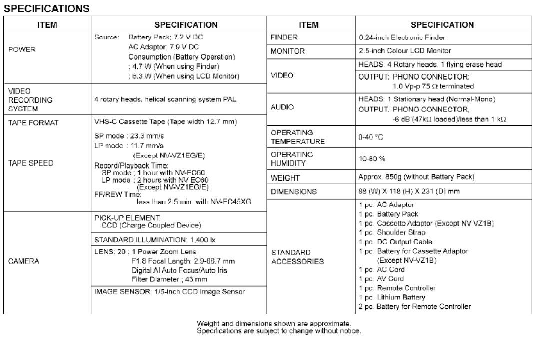
VHS-C Movie

Panasonic
VHS C
PAL
HQ

NV-VZ1EG
NV-VZ1B
NV-VZ1E
NV-VZ1EN
NV-VZ1ENH
NV-VZ1ENC
NV-VZ1A
CZ-MECHANISM



SPECIFICATIONS



SPECIFICATIONS

ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption (Battery Operation) ; 4.7 W (When using Finder) ; 6.3 W (When using LCD Monitor)
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL
TAPE FORMAT	VHS-C Cassette Tape (Tape width 12.7 mm)
TAPE SPEED	SP mode : 23.3 mm/s LP mode : 11.7 mm/s (Except NV-VZ1EG/E) Record/Playback Time: SP mode ; 1 hour with NV-EC60 LP mode ; 2 hours with NV-EC60 (Except NV-VZ1EG/E) FF/REW Time: less than 2.5 min. with NV-EC45XG
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)
	STANDARD ILLUMINATION: 1,400 lx
	LENS: 20 : 1 Power Zoom Lens F1.8 Focal Length: 2.9-66.7 mm Digital AI Auto Focus/Auto Iris Filter Diameter ; 43 mm
	IMAGE SENSOR: 1/5-inch CCD Image Sensor

ITEM	SPECIFICATION
FINDER	0.24-inch Electronic Finder
MONITOR	2.5-inch Colour LCD Monitor
VIDEO	HEADS: 4 Rotary heads, 1 flying erase head
	OUTPUT: PHONO CONNECTOR; 1.0 Vp-p 75 Ω terminated
AUDIO	HEADS: 1 Stationary head (Normal-Mono) OUTPUT: PHONO CONNECTOR; -6 dB (47kΩ loaded)/less than 1 kΩ
OPERATING TEMPERATURE	0-40 °C
OPERATING HUMIDITY	10-80 %
WEIGHT	Approx. 850g (without Battery Pack)
DIMENSIONS	88 (W) X 118 (H) X 231 (D) mm
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor (Except NV-VZ1B) 1 pc. Shoulder Strap 1 pc. DC Output Cable 1 pc. Battery for Cassette Adaptor (Except NV-VZ1B) 1 pc. AC Cord 1 pc. AV Cord 1 pc. Remote Controller 1 pc. Lithium Battery 2 pc. Battery for Remote Controller

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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⚠ WARNING
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

1. INTRODUCTION

1.1. INTRODUCTION1

**This service manual contains technical information which will allow service personnel's to understand and service this model.
Please place orders using the parts list and not the drawing reference numbers.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.**

**Note 1:
Adjustment procedure for Mechanism-Chassis is separate volume.
Please refer to following manual for detail of adjustment procedure for Mechanism-Chassis.
Order number for adjustment procedure of Mechanism-Chassis : VMD9912044C8**

**Note 2:
These movie cameras are using the different AC adaptor as follows.
VSK0541: For NV-VZ1B.
VSK0564: For NV-VZ1EG/E/EN/ENH/ENC/A.
The Service manuals for above AC adaptors are separately is used as follows.
Order number for AC Adaptor-----VSK0541/545 (VW-AS7) : VMD9812066C8
Order number for AC Adaptor-----VSK0564 :VMD9907028C3**

1.2. INTRODUCTION2

**Note 1:
NV-VZ1EN series has to versions depends on countries.
Detail as follows.**

Model No. (Version)	NV-VZ1EN	NV-VZ1ENH	NV-VZ1ENC
PACKING CASE	VPG0C02	VPG0C02	VPG0C04
AC CORD	VJA0664	VJA0940	VJA0664

1.3. FEATURE COMPARISON CHART

	VZ1EG	VZ1E	VZ1B	VZ1A	VZ1EN	VZ1ENH
CCD Image Sensor	1/5”	1/5”	1/5”	1/5”	1/5”	1/5”
CCD Capacity (Pixels)	450k	450k	450k	450k	450k	450k
Colour LCD Monitor	2.5”	2.5”	2.5”	2.5”	2.5”	2.5”
LCD Capacity (Pixels)	112,320	112,320	112,320	112,320	112,320	112,320
B/W EVF LCD Monitor	0.24”	0.24”	0.24”	0.24”	0.24”	0.24”
EVF LCD Capacity (Pixels)	76,800	76,800	76,800	76,800	76,800	76,800
Recording/Playback mode	SP	SP	SP/LP	SP/LP	SP/LP	SP/LP
Optical Zoom Ratio	x20	x20	x20	x20	x20	x20
Digital Zoom (x40/x100/x220)	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●
Shortest Image Distance (From 1st Lens)	1.8m	1.8m	1.8m	1.8m	1.8m	1.8m

2. SERVICE CAUTION

2.1. EEPROM DATA FOR SPARE PARTS OF THE CAMERA/MAIN C.B.A.

When the Camera/Main C.B.A. is replaced, the fixed and average data must be re-written by Tatsujin kit according to the Movie Camera’s suffix.
Then, confirm and/or adjust the VTR and Camera adjustment one by one.

2.2. SERVICE EXTENSION CABLES.

This model is required the following extension cables for all connections.
And for more convenient service, prepare the Rear Case U. (VEK8865) through a spare parts route.

Ref.	Parts No.	Pin	Part name	Connection	Q’ty	Rema
(a)	VFK1582A2120	21	Flat Cable	FP701-Lens Unit	1	
(b)	VFK1582D1225	12	Flat Cable	PP301-Lens Unit	1	
(c)	VFK1582E0720	7	Flat Cable	FP2002-Cylinder	1	
(d)	VFK1582A1325	13	Flat Cable	FP6002-CAM. OP.	1	
(e)	VFK1582A1625	16	Flat Cable	FP6004-S/S ZOOM VTR OP.	1	
(f)	VFK1582A0920	9	Flat Cable	FP4001-A/C Head	1	
(g)	VFK1582A1025	10	Flat Cable	FP1001-EVF	1	
(h)	VFK1582A1420	14	Flat Cable	FP601-Monitor	1	
(i)	VFK1582A1925	19	Flat Cable	FP2001-Capstan	1	
(j)	VFK1582A2125	21	Flat Cable	FP6001-Mecha. FPC.	1	
(k)	VFK1582A1420	14	Flat Cable	FP602-Monitor	1	
(l)	VFK1582A1620	16	Flat Cable	FP4002-Front	1	

NOTE:

New Parts numbers consist 4 blocks. And they has meaning as

follows.

For example: VFK1582 A 21 20
1 2 3 4

1. It shows type of flexible cable, Zigzag, Straight or wire.

VFK1581	Straight Flexible cable without Connector
VFK1582	Straight Flexible cable with Connector
VFK1574	Zigzag Flexible cable without Connector
VFK1575	Zigzag Flexible cable with Connector
VFK1576	Wire cable

2. It shows pitch (mm) of connector.

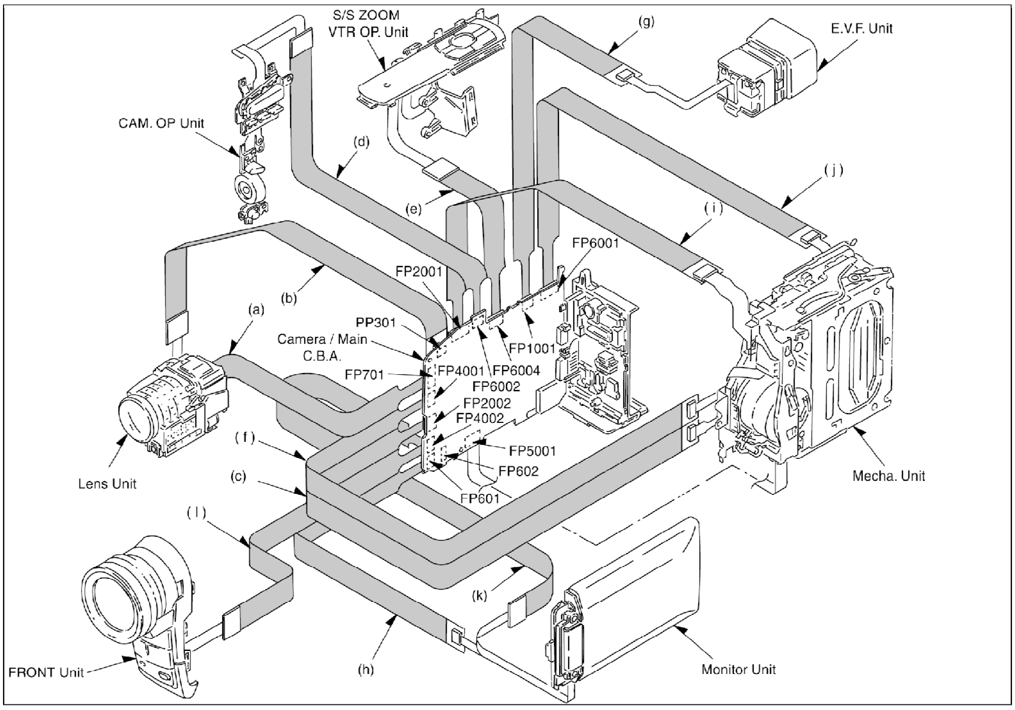
A	0.5 mm
B	0.4 mm
C	0.3mm
D	0.8mm
E	1.0mm

3. It shows number of pins of connector.

4. It shows length of cable with [cm].

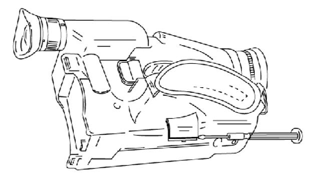
Above parts number shows;
Straight Flexible cable with connector, connector pitch is 0.5 and length of cable is 20cm.

How to use extension cables.


S/S ZOOM
VTR OP. Unit
(g)
E.V.F. Unit
CAM. OP Unit
(d)
(j)
(e)
(i)
FP6001
FP2001
(b)
(a)
PP301
Camera / Main
C.B.A.
FP1001
FP701
FP4001
FP6004
FP6002
FP2002
FP4002
(f)
FP5001
FP602
FP601
Lens Unit
(c)
(l)
Mecha. Unit
(k)
FRONT Unit
(h)
Monitor Unit

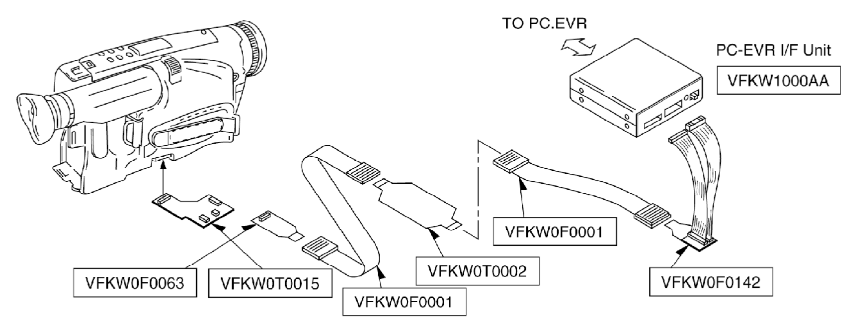
2.3. SET-UP FOR ADJUSTMENT OF TATSUJIN.

For adjustments with Tatsujin, it is not necessary to open the side case.
Just open the small cover on the side case (L) by a small screwdriver.



· Insert a small screwdriver to small hole on side case (L) and prize off the cover.
(Be carefully for prevention of scratch on case)

And insert the Extension board and connect Tatsujin cable as follows.


TO PC.EVR
PC-EVR I/F Unit
VFKW1000AA
VFKW0F0001
VFKW0T0002
VFKW0F0142
VFKW0F0063
VFKW0T0015
VFKW0F0001

3. SERVICE INFORMATION

3.1. SERVICE INFORMATION DISPLAY (GENERAL DESCRIPTION)

- **This Movie Camera has SERVICE INFORMATION DISPLAY function which enables quick trouble-shooting.**
- **The Service Information Display is available with the following prcedures.**
- **The Service Information is displayed on the EVF and LCD monitor. (There are 4 kinds of SERVICE MODES as shown below.) In the OSD Line Output Mode, the service Information can be also displayed on the TV.**

MODE NAME	FUNCTION	How to use. (Push the following keys simultan more than 2 sec.)		
OSD Line Output MODE	-Checking the EVF information on the TV monitor.	FOCUS/SET <SIDE CASE(R)>	STOP <TOP PANEL>	DATE <SIDE T
MODE NAME	FUNCTION	How to use. (Push following keys simultaneou than 2 sec.)		
SERVICE MODE 1	-Remaining Battery A/D Value. -Safety Device. -Capstan/Cylinder injuctions.	COLOUR <SIDE CASE(R)>	STOP <TOP PANEL>	DATE <SIDE T
MODE NAME	FUNCTION	How to use. (After chosing SERVICE MODE 1, [DATE/TITLE] key.		
SERVICE MODE 2	-Reference Voltage A/D Value. -Mechanism positio.n -Serial key code.	DATE/TITLE		
MODE NAME	FUNCTION	How to use. (After chosing SERVICE MODE 2, [DATA/TITLE] key.		
SERVICE MODE 3	-ERROR CODE Display.	DATE/TITLE		
MODE NAME	FUNCTION	How to use. (After chosing SERVICE MODE 3, [DATE/TITLE] key.		
SERVICE MODE 4	-PG SHIFTER ADJUSTMENT.	DATE/TITLE		

3.2. ERROR CODE DISPLAY

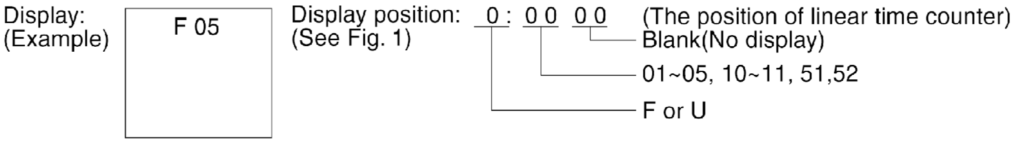
- **When an undesirable condition occurs, the power will be turned off. (Except zoom & focus motor lock condition. Since this model, “ERROR CODE” is not automatically displayed on the EVF and LCD monitor, also the CAMERA LED is not flashed.)**
- **By turning on Service Mode 3, it is possible to check what kind of undesirale condition has occurred, even after the ERROR CODE has disappeared. (The ERROR CODE is stored with EEPROM-IC.)**

NOTE1:
The content of all Service Modes (Service Mode 1-Service Mode 4) is the privious models.
So, please refer to the following Technical Information for the details.
Order Number for Technical Information : VMD9512M138

NOTE2:
Since Service Mode 3 (ERROR CODE display) is important for the service, the outline is shown below.

3.3. SERVICE MODE 3

- After undesirable conditions occured, you can see what kind of error occured by turning on the Service Mode 3.



Display	Condition	The Power off timing
F01	T-REEL LOCK	After 1 minute (flashing the LED)
F02	S-REEL LOCK	
F03	UNLOADING LOCK	
F04	LOADING LOCK	
F05	CYLINDER LOCK	
F51	FOCUS MOTOR LOCK	
F52	ZOOM MOTOR LOCK	
U10	DEW DETECTION	After 18 minutes (flashing the LED)
U20	HEAD CLOGGING	Not turning off

3.4. INSERTING THE BUTTON-TYPE BATTERY

Before setting the data and time, insert the button-type battery (supplied).

1 **Open the [BACKUP BATTERY] Cover.**

2 **Insert the button-type battery so that its (+) side is visible.**

3 **Close the [BACKUP BATTERY] COVER.**

- Before inserting or removing the button-type battery, be sure to set the [CAMERA/OFF/VCR] Switch to [OFF].
- When the button-type battery is exhausted, the [🔋] Indication flashes. In this case, replace it with a new CR2025 battery.
  (The life of the battery is about 1 year.)
- To mark it easier to remove of the button-type battery, use a pointed object.
- When you remove the button-type battery, be careful not to drop it.

- **Keep the button-type battery out of the reach of children.**
- Make sure you insert the battery with its poles correctly aligned.
- The internal clock works even when the Movie Camera is turned off, and it consumes power from the button-type battery.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufactrer's instructions.

Note:

The lithium battery is a critical component (Type No.: CR2025 Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial

rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

4. GENERAL DESCRIPTIONS

5. ADJUSTMENT PROCEDURES

5.1. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw)
1	Side Case (L) Unit	Fig. 1	1-Screw (A) 1-Screw (B) 1-Screw (C) 3-Screws (D) 1-Screw (E)
		Fig. 2	4-Screws (F)
		Fig. 3	Locking Tab (a) Slightly open the Side Case (L) Unit. Disconnect FP6004.
2	Front Case Unit	Fig. 4	4-Locking Tabs (b) Disconnect FP4002.
3	Camera/Main C.B.A.	Fig. 5	2-Screw (G) Remove the Shild Case. Disconnect the following connectors. FP6002, FP2001, PP301, FP701, FP4001, FP2002, FP601, FP602, FP5001, FP6001, FP1001, FP4002, PS3509, PS1003
4	Cassette Cover Unit	Fig. 6	1-Screw (H)
5	Rear Case Unit	Fig. 7	1-Screw (K) 2-Locking Tabs (c)
6	EVF Unit	Fig. 8	2-Screws (L)
7	Mechanism Unit	Fig. 9	3-Screws (M)
8	Lens Unit	Fig. 10	1-Screw (N)
9	Main Frame Unit	Fig. 6	1-Screw (I) 2-Screws (J)
		Fig. 11	1-Screw (O) 7-Locking Tabs (d)

No.	Item/Part	Fig.	Removal (Screw)
10	LCD Unit	Fig. 12	Remove the Barrier. 5-Screws (P)
		Fig. 13	1-Screw (Q) 2-Screws (R) 3-Locking Tabs (f) Remove the LCD Case (Upper) U. Disconnect FP901, FP902, FP903 and FP904. 2-Screws (S) Remove the LCD Hinge Holder U.
		Fig. 14	1-Screw (T) Remove the Monitor C.B.A., Back Light U., LCD Shield Sheet, Diffusion Sheet, LCD Frame, LCD Module, LCD Case (Lower) U.

Fig. 1

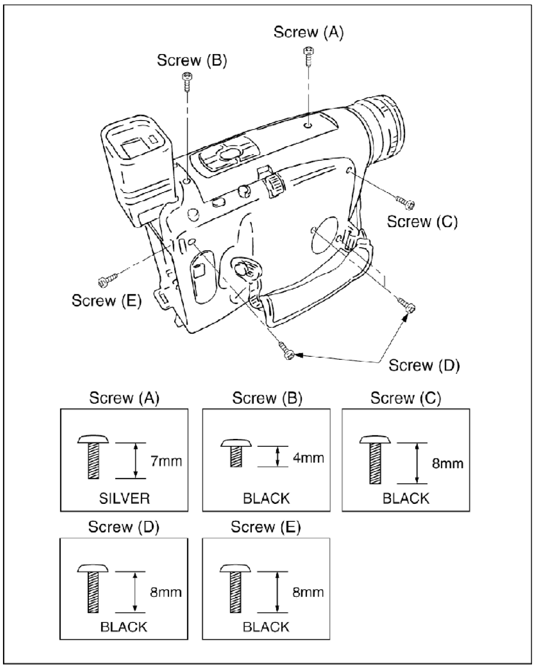

Screw (A)
Screw (B)
Screw (C)
Screw (E)
Screw (D)
Screw (A)
7mm
SILVER
Screw (B)
4mm
BLACK
Screw (C)
8mm
BLACK
Screw (D)
8mm
BLACK
Screw (E)
8mm
BLACK

Fig. 2

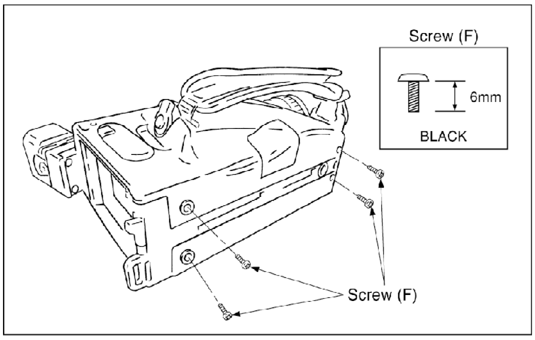

Screw (F)
6mm
BLACK
Screw (F)

Fig. 3

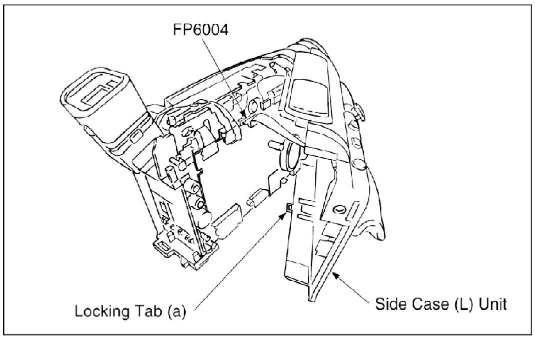

FP6004
Locking Tab (a)
Side Case (L) Unit

Fig. 4

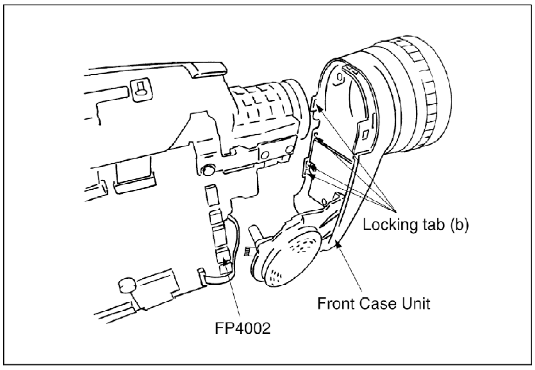

Locking tab (b)
Front Case Unit
FP4002

Fig. 5

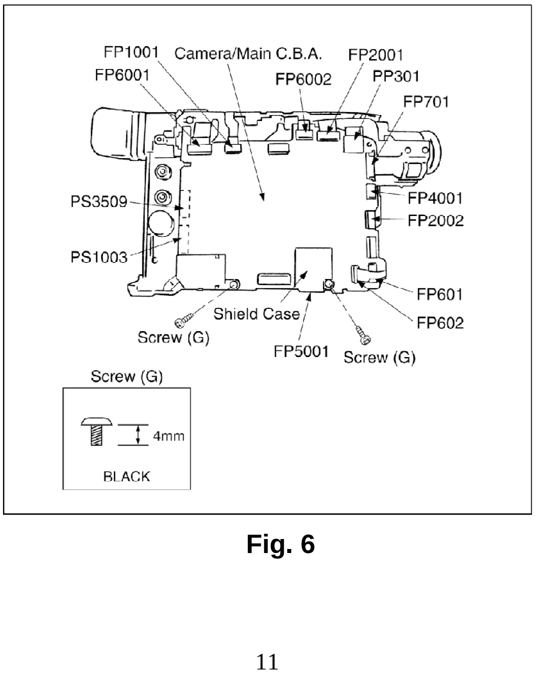

FP1001
Camera/Main C.B.A.
FP2001
FP6001
FP6002
PP301
FP701
PS3509
FP4001
FP2002
PS1003
FP601
Shield Case
FP602
Screw (G)
FP5001
Screw (G)
Screw (G)
4mm
BLACK

Fig. 6

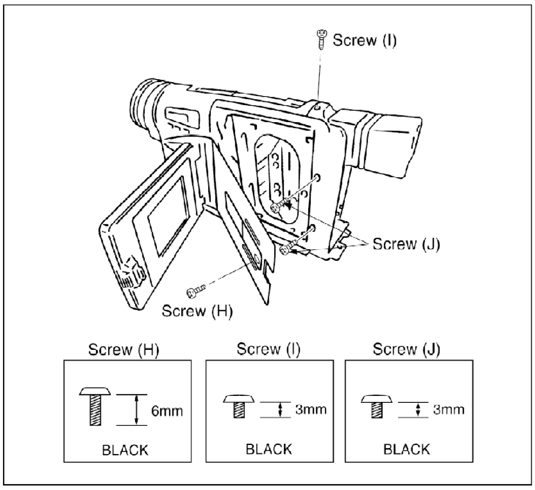

Screw (I)
Screw (J)
Screw (H)
Screw (H)
6mm
BLACK
Screw (I)
3mm
BLACK
Screw (J)
3mm
BLACK

Fig. 7

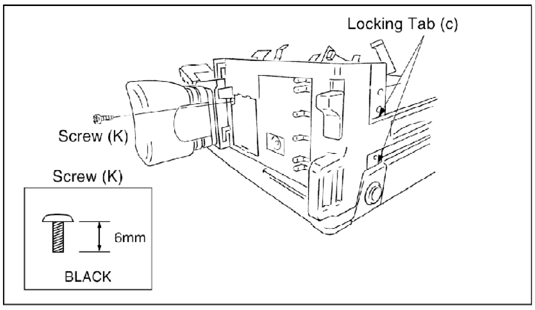

Locking Tab (c)
Screw (K)
Screw (K)
6mm
BLACK

Fig. 8

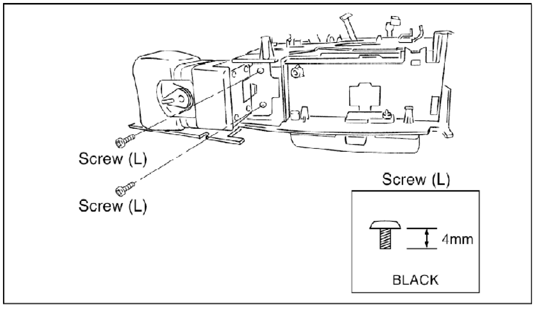

Screw (L)
Screw (L)
Screw (L)
4mm
BLACK

Fig. 9

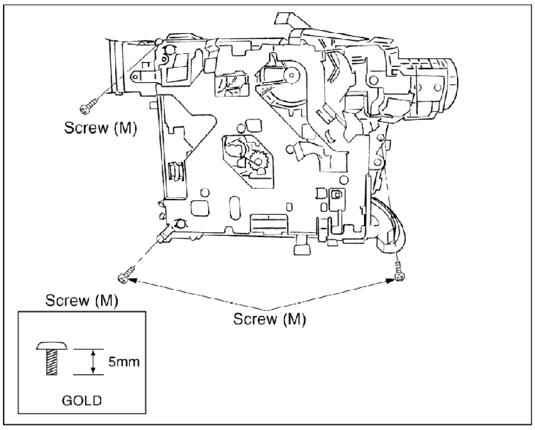

Screw (M)
Screw (M)
Screw (M)
5mm
GOLD

Fig. 10

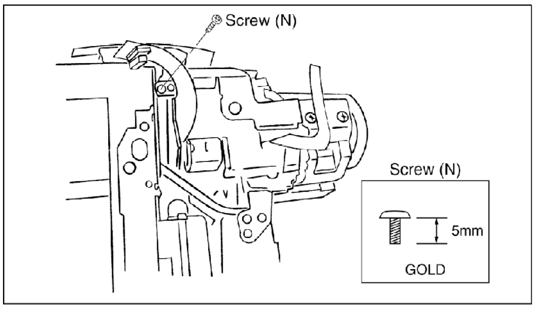

Screw (N)
Screw (N)
5mm
GOLD

Fig. 11

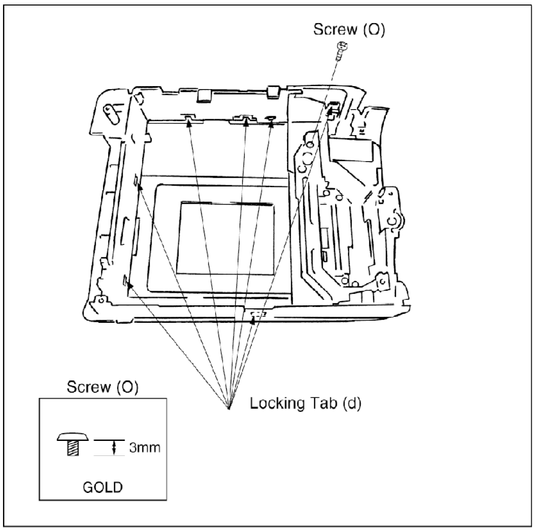

Screw (O)
Screw (O)
3mm
GOLD
Locking Tab (d)

Fig. 12

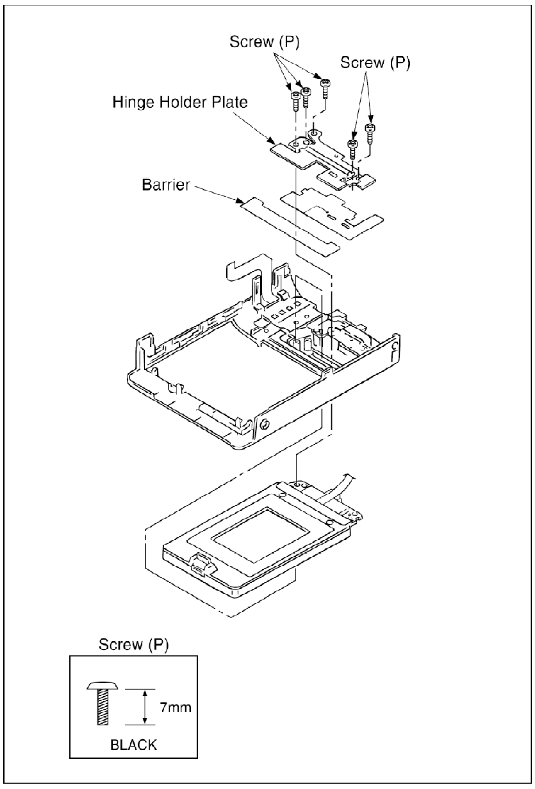

Screw (P)
Screw (P)
Hinge Holder Plate
Barrier
Screw (P)
7mm
BLACK

Fig. 13

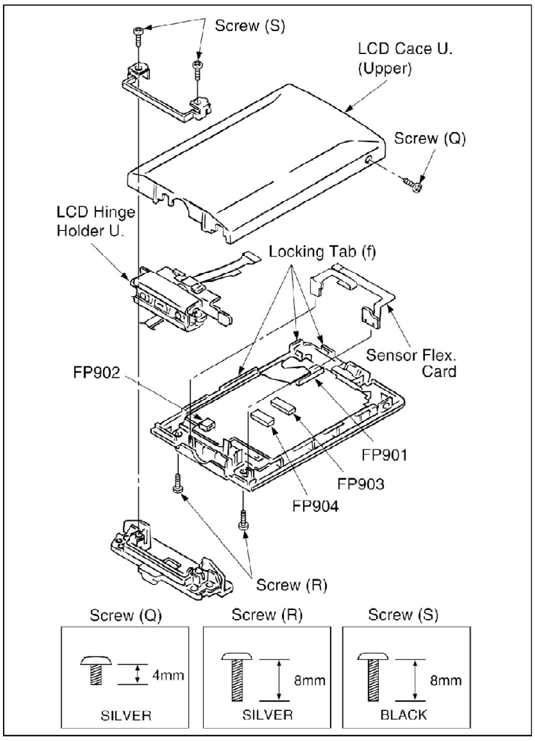
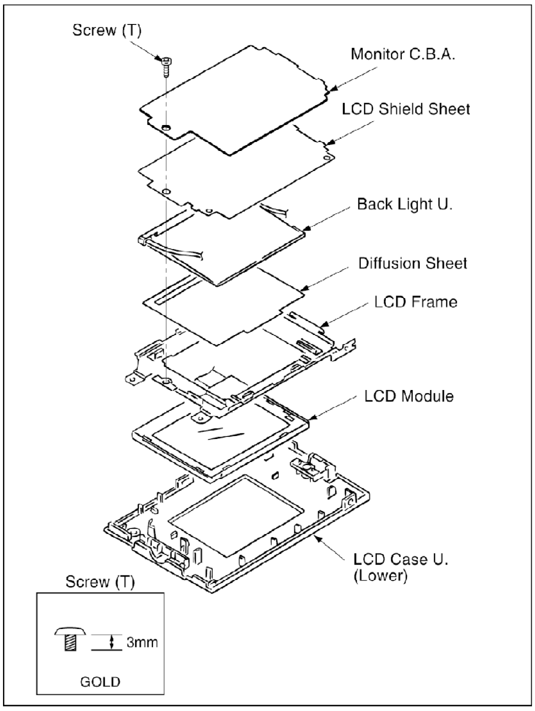

Screw (S)
LCD Cace U.
(Upper)
Screw (Q)
LCD Hinge
Holder U.
Locking Tab (f)
Sensor Flex.
Card
FP902
FP901
FP903
FP904
Screw (R)
Screw (Q)
4mm
SILVER
Screw (R)
8mm
SILVER
Screw (S)
8mm
BLACK

Fig. 14


Screw (T)
Monitor C.B.A.
LCD Shield Sheet
Back Light U.
Diffusion Sheet
LCD Frame
LCD Module
LCD Case U.
(Lower)
Screw (T)
3mm
GOLD

5.2. DISASSEMBLY PROCEDURES OF LENS UNIT

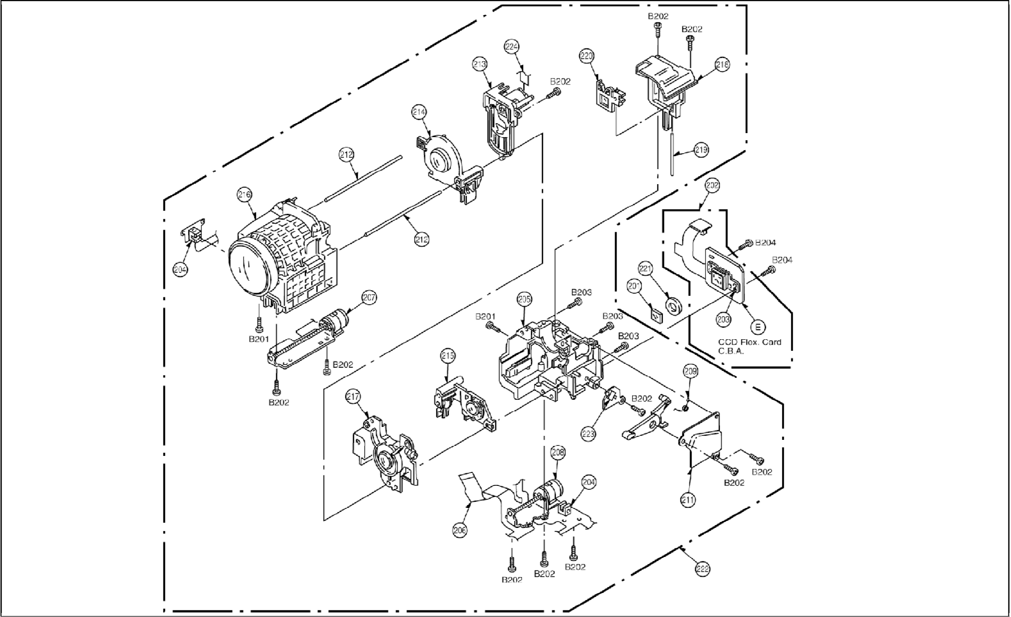
- **The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.**
- **To reassemble the unit follow the steps in reverse order.**

Fig. L1

1. CCD Unit	Ref. No. 202
2. CCD Cushion & Crystal Filter	Ref. No. 221/201
3. Protect Sheet & Lever	Ref. No. 211/210
4. F fix frame & F frame U.	Ref. No. 218/220
5. Zoom Motor Unit	Ref. No. 207
6. Focus Motor Unit	Ref. No. 208
7. Lens Flex. Card C.B.A.	Ref. No. 206
8. Master Flange & Ilis U	Ref. No. 205/213
9. 3rd Lens Frame Unit	Ref. No. 217
10. 4th Moving Frame Unit	Ref. No. 215
11. 2nd Moving Frame Unit	Ref. No. 214
12. Guide Pole	Ref. No. 212

Note: Each Ref.-numbers are equivalent to number on Fig. L2 and Parts List.

Fig. L2


B202
B202
224
213
220
B202
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218
202
B204
B204
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221
201
209
CCD Flex. Card C.B.A.
207
B201
B202
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B203
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B203
215
217
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223
B202
208
204
206
211
B202
B202
B202
B202
B202
222

6. ABBREVIATIONS

7. WAVEFORM TABLE

8. BLOCK DIAGRAMS

8.1. CAMERA BLOCK DIAGRAM

8.2. SYSTEM CONTROL & SERVO/POWER BLOCK DIAGRAM

8.3. VIDEO BLOCK DIAGRAM
8.4. MONITOR BLOCK DIAGRAM
9. SCHEMATIC DIAGRAMS
9.1. CAMERA 1 SCHEMATIC DIAGRAM
9.2. CAMERA 2 SCHEMATIC DIAGRAM
9.3. LENS DRIVE SCHEMATIC DIAGRAM
9.4. AUDIO SHCEMATIC DIAGRAM
9.5. VIDEO SCHEMATIC DIAGRAM
9.6. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM
9.6.1. SYSTEM CONTROL & SERVO DC VOLTAGE CHART (SP MODE)
9.7. SUB SERVO SCHEMATIC DIAGRAM
9.8. LCD SCHEMATIC DIAGRAM
9.9. POWER SCHEMATIC DIAGRAM
9.10. MIC SCHEMATIC DIAGRAM
9.11. SP DRIVE SCHEMATIC DIAGRAM
9.12. AVS OUT SCHEMATIC DIAGRAM
9.13. MONITOR & SENSOR FLEX. CARD SCHEMATIC DIAGRAM
9.14. E.V.F. SCHEMATIC DIAGRAM
9.15. MIC UNIT SCHEMATIC DIAGRAM
9.16. CCD FLEX. CARD SCHEMATIC DIAGRAM
10. CIRCUIT BOARD ASSEMBLIES
10.1. CAMERA/MAIN C.B.A. ADDRESS INFORMATIONS
10.2. CAMERA/MAIN (COMPONENT SIDE) C.B.A.
10.3. CAMERA/MAIN C.B.A. (FOIL SIDE)
10.4. MONITOR C.B.A.

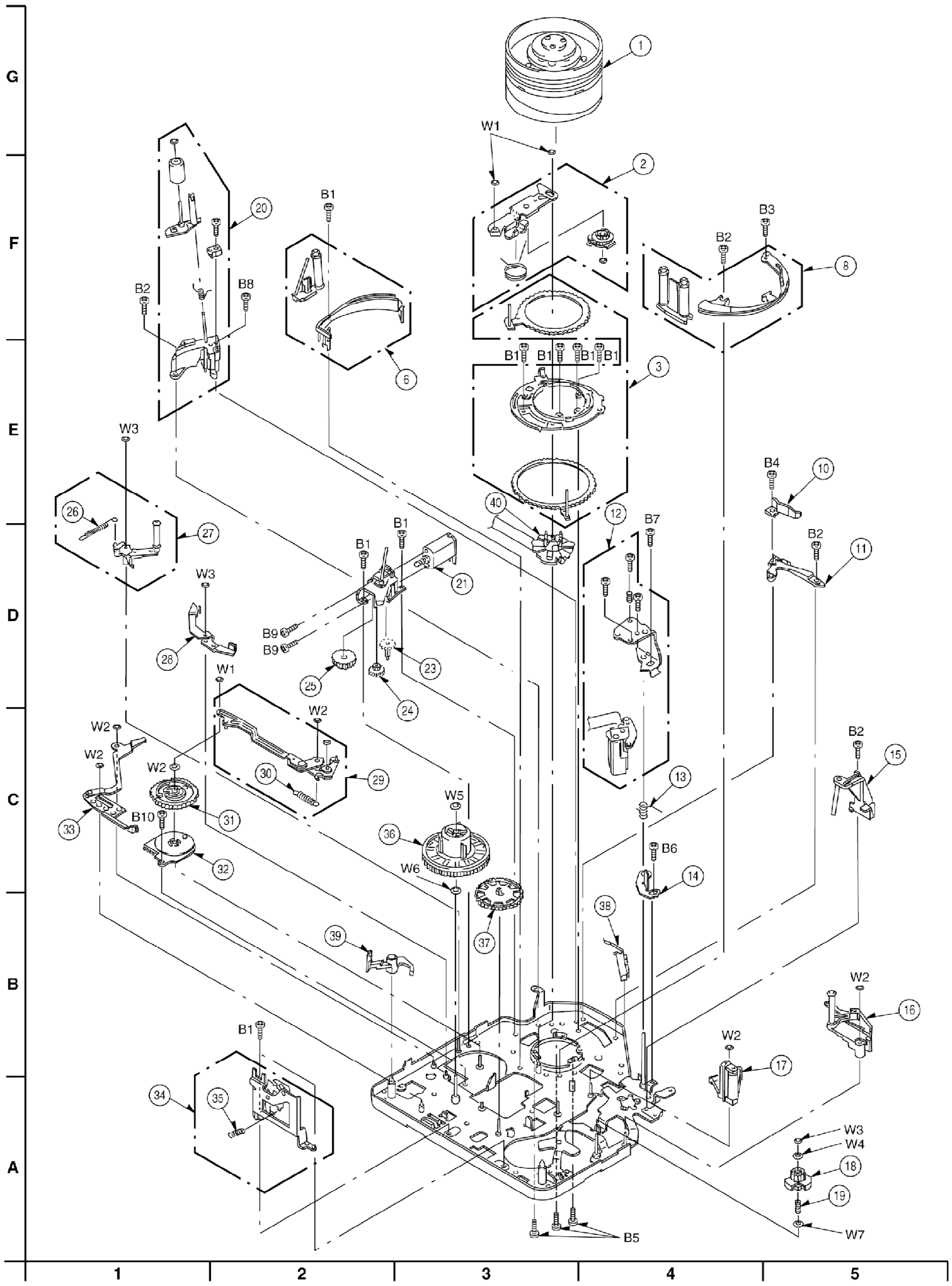
10.5. E.V.F. C.B.A.

10.6. CCD FLEX. CARD C.B.A.

10.7. MIC UNIT

11. EXPLODED VIEWS & PARTS LIST

11.1. VTR MECHANISM SECTION (1)


G
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W1
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B1
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B3
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B4
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B6
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W6
37
38
39
W2
16
W2
17
B1
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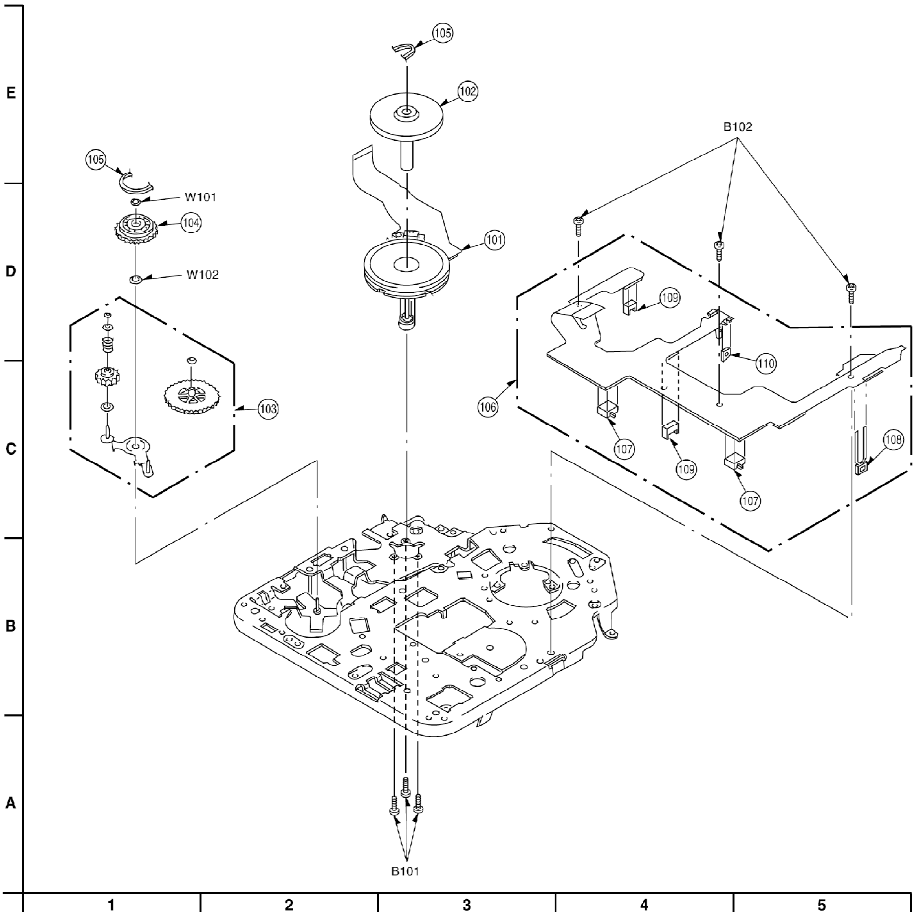
35
W3
W4
18
19
B5
W7

11.2. VTR MECHANISM SECTION (2)


E
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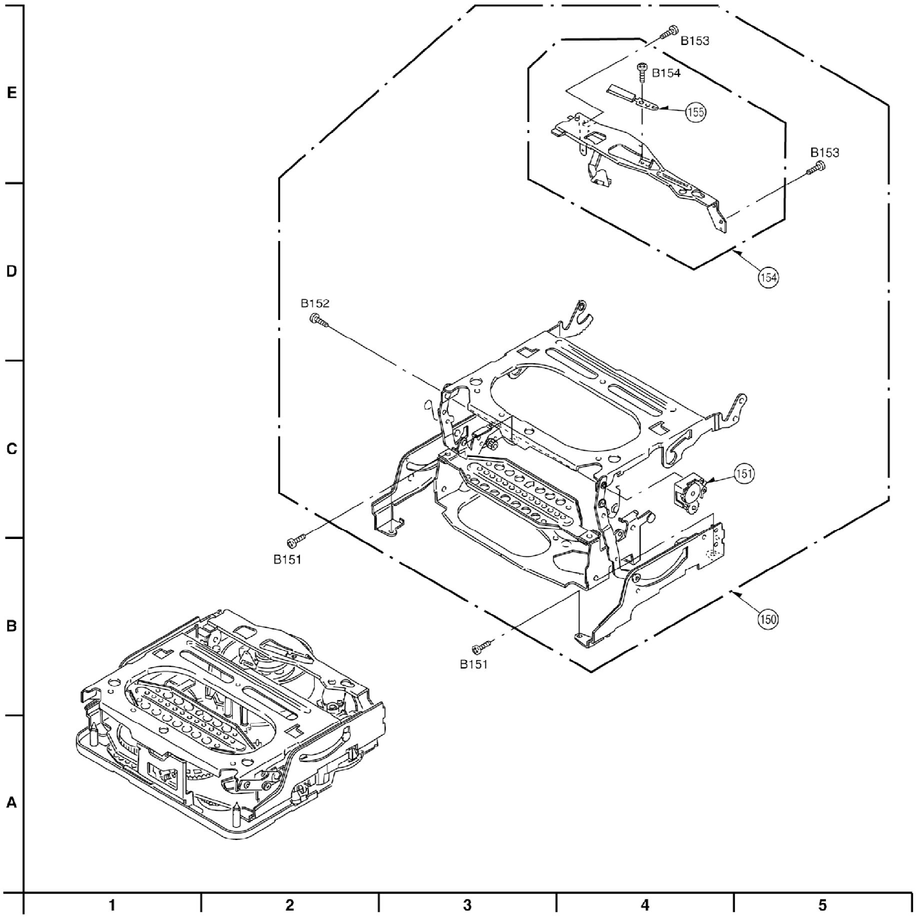
105
102
B102
105
W101
104
101
W102
109
110
103
106
107
109
108
107
B101

11.3. VTR MECHANISM SECTION (3)


B153
B154
155
B153
154
B152
151
B151
150
B151
E
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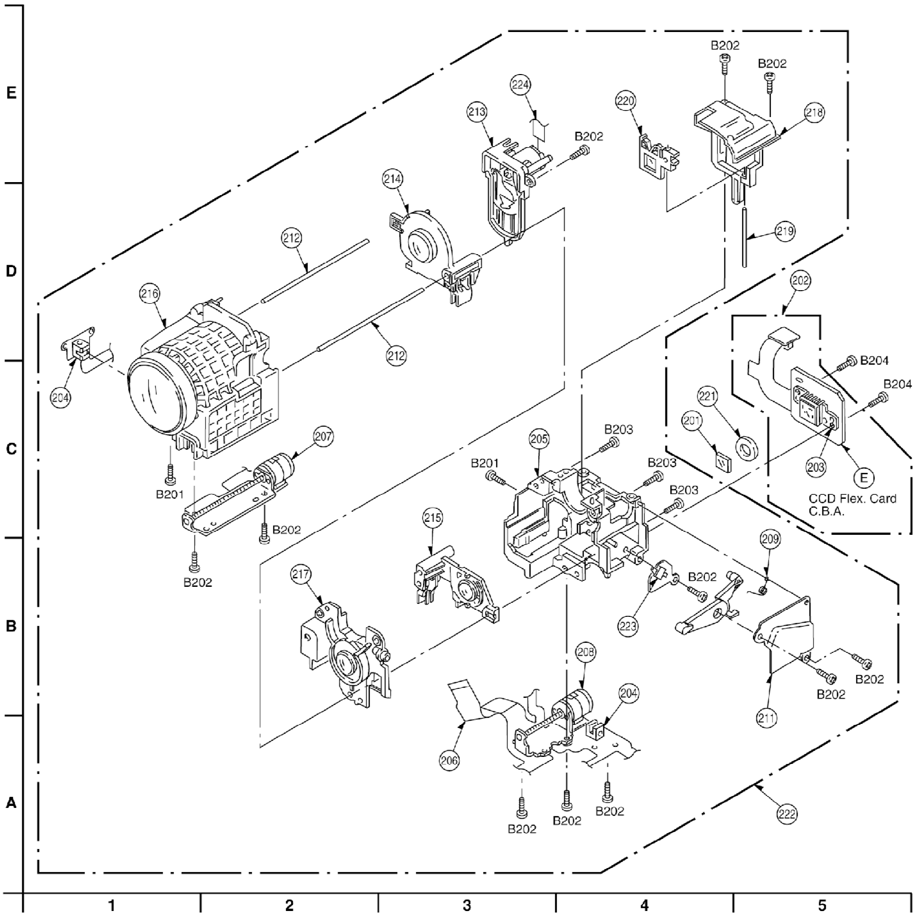
11.4. CAMERA LENS SECTION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B202
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B204
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CCD Flex. Card C.B.A.
B202
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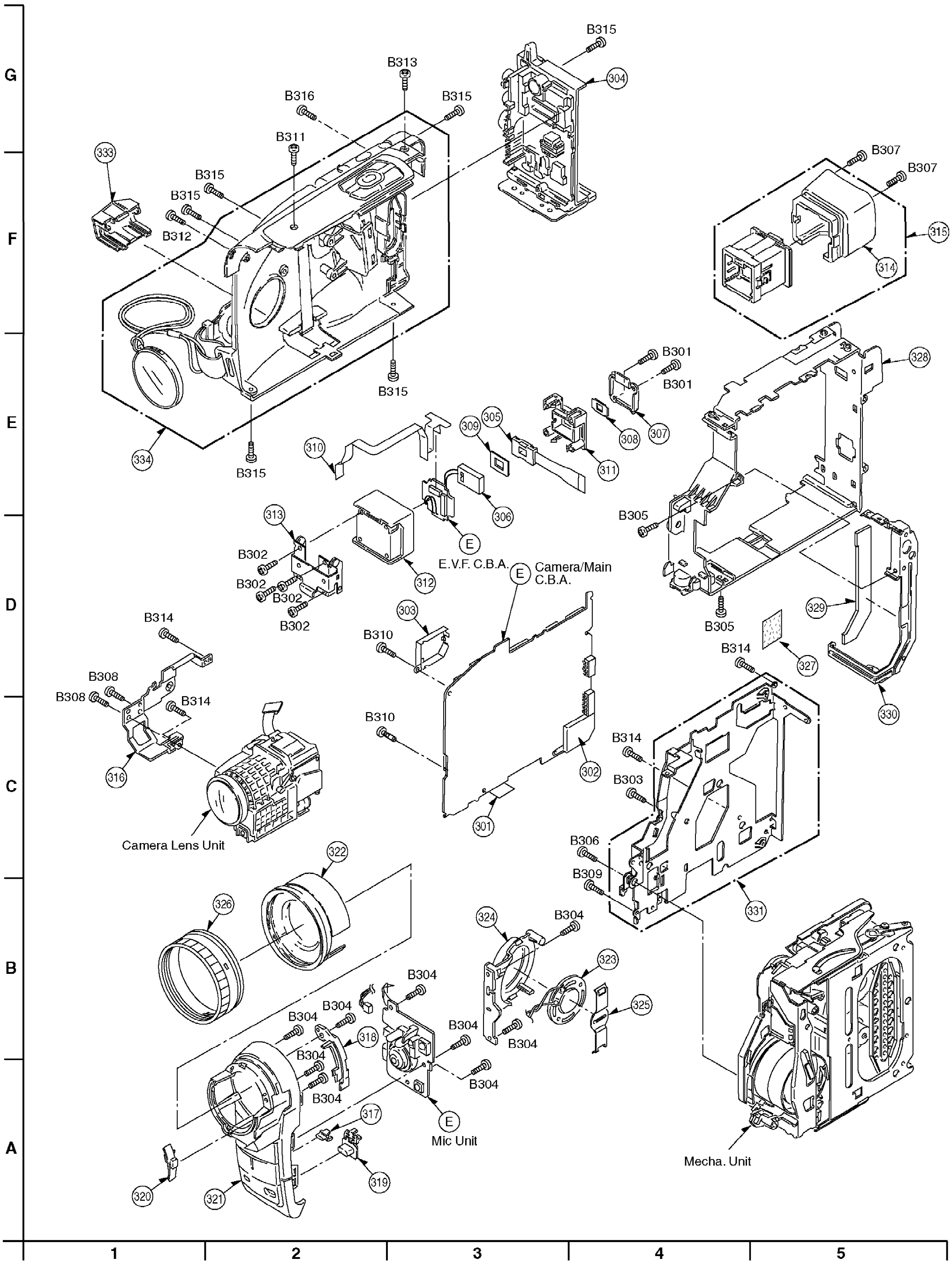
11.5. FRAME & CASING SECTION (1)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B315
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B313
B316
B315
B311
333
B315
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B312
B307
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314
328
B301
B301
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334
B315
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309
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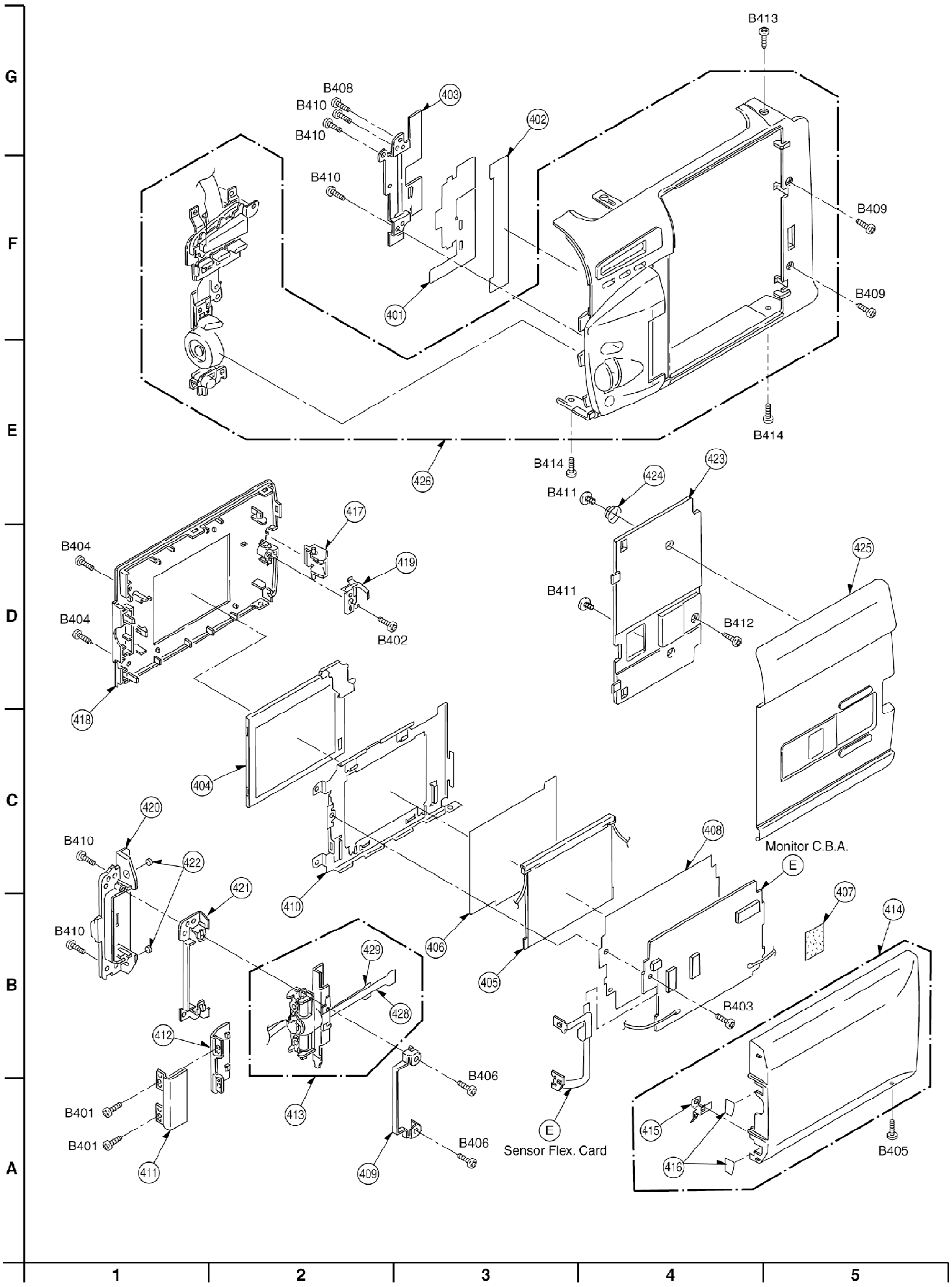
306
311
308
307
313
B302
B302
B302
B302
312
E
E.V.F. C.B.A.
E
Camera/Main C.B.A.
B305
B305
329
327
330
B314
303
B310
B308
B308
B314
316
B310
302
301
Camera Lens Unit
B314
B303
B306
B309
331
322
326
324
B304
323
325
B304
B304
B304
318
B304
B304
B304
B304
B304
317
E
Mic Unit
319
320
321
Mecha. Unit

11.6. FRAME & CASING SECTION (2)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404
420
B410
422
421
410
408
Monitor C.B.A.
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407
414
B410
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429
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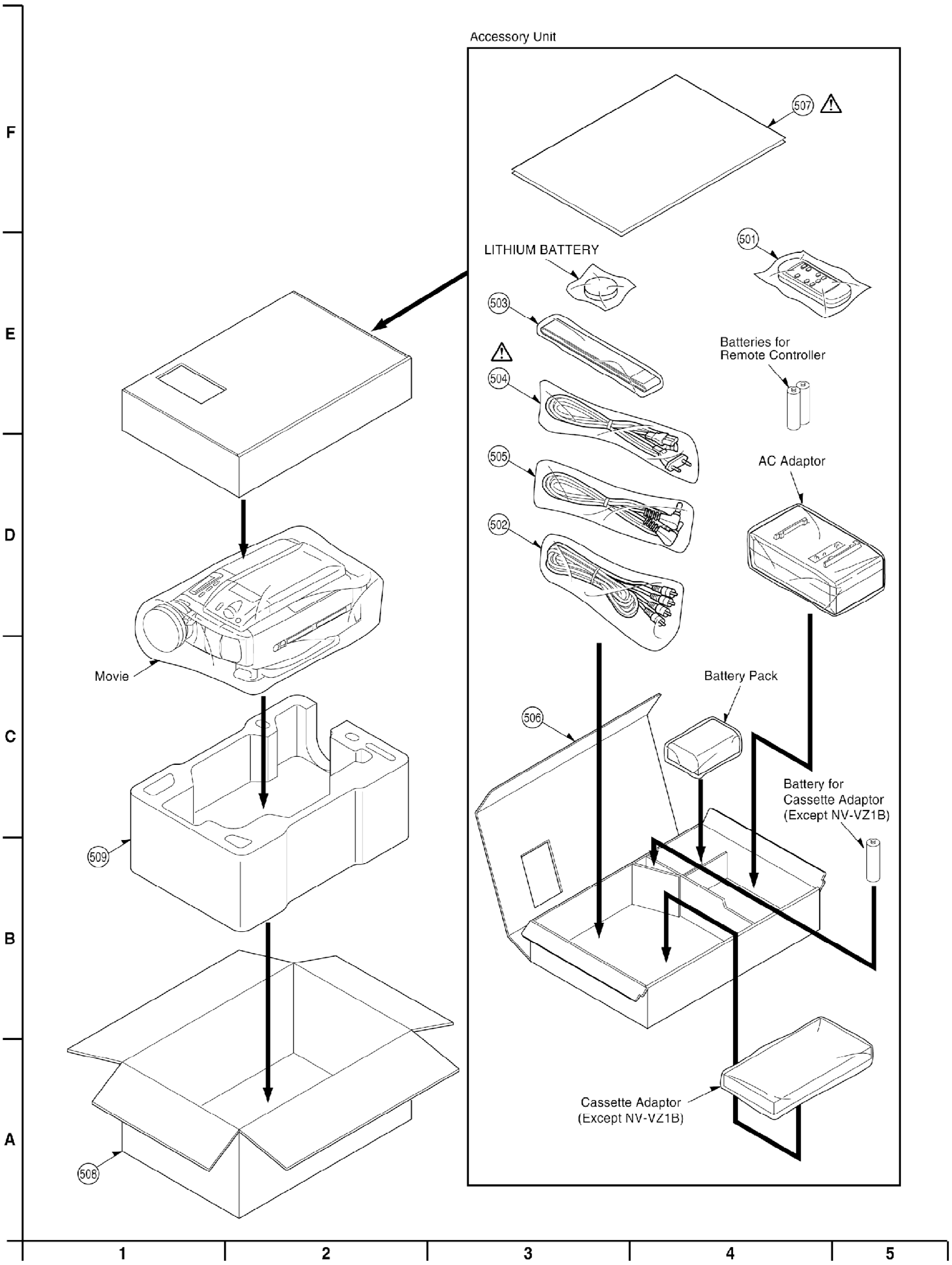
428
B403
412
B406
413
B401
B401
411
409
B406
E
Sensor Flex. Card
415
416
B405

11.7. PACKING PARTS & ACCESSORIES SECTION


Accessory Unit
507 ⚠
LITHIUM BATTERY
501
503
⚠
504
Batteries for
Remote Controller
505
AC Adaptor
502
Movie
Battery Pack
506
509
Battery for
Cassette Adaptor
(Except NV-VZ1B)
Cassette Adaptor
(Except NV-VZ1B)
508
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12. REPLACEMENT PARTS LIST

12.1. VTR MECHANISM SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEG1512	CYLINDER UNIT	1	NV-VZ1EG/E
1	VEG1518	CYLINDER UNIT	1	EXCEPT NV-VZ1EG/E
2	VXL2938	SWING ARM U.	1	
3	VXA6548	S LING U.	1	
4	VMD3741	RING GUIDE	1	
5	VXA6547	T RING U.	1	
6	VMD3740	S-RAIL	1	
7	VXA6552	S-BOAT U.	1	
8	VMD3742	T-RAIL	1	
9	VXA6555	T-BOAT U.	1	
10	VMD3738	T-STOPER PIN	1	
11	VMD3736	T-BOAD STOPER	1	
12	VXA6556	AC HEAD U.	1	
13	VMB3380	AC HEAD SPRING	1	
14	VMA0E11	AC ADJ. PLATE	1	
15	VXA6557	T4 POST U.	1	
16	VXL2937	T3 ARM U.	1	
17	VXL2941	PINCH ARM U.	1	
18	VDG1407	T DRIVE GEAR	1	
19	VMB3385	REW TORQUE SPRING	1	
20	VXA6549	S-BOAT STOPER U.	1	
21	VEM0708	LOADING MOTOR (1) U.	1	
22	VXA6558	MOTOR HOLDER U.	1	
23	VDG1398	BRAKE GEAR (A)	1	
24	VDG1399	BRAKE GEAR (B)	1	
25	VDG1400	BRAKE GEAR (C)	1	
26	VMB3386	TEN-REG. SPRING	1	
27	VXL2945	TEN-REG. ARM U.	1	
28	VXL2947	PAD ARM U.	1	
29	VXL2942	PINCH DRIVE ARM U.	1	
30	VMB2363	PINCH PRESURE SPRING	1	
31	VDG1401	CAM GEAR	1	
32	VSR0245	MODE SW	1	
33	VXL2940	EJECT LEVER U.	1	
34	VXA6560	LOCK BASE U.	1	
35	VMB2369	LOCK BASE SPRING	1	
36	VDR0354	REEL BASE (S)	1	
37	VDG1410	RELAY GEAR	1	
38	VMC1568	T-BOAD SPRING	1	
39	VML3480	REC SAFETY SW U.	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
40	VEK7277	RT CONNECTOR U.	1	
B1	XQN14+B25FY	SCREW	9	
B2	XQN14+B3	SCREW	4	
B3	XQN14+B4	SCREW	1	
B4	VHD1320	SCREW	1	
B5	XQN14+C35R	SCREW	3	
B6	VHD1338	SCREW	1	
B7	VHD1337	SCREW	1	
B8	VHD1319	SCREW	1	
B9	XQN14+A14	SCREW	2	
B10	XQN14+B25	SCREW	1	
W1	VMX2974	WASHER	3	
W2	VMX2026	WASHER	6	
W3	VMX2027	WASHER	3	
W4	VMX2957	WASHER	1	
W5	VMX2955	WASHER	1	
W6	XWGV2D4G	WASHER	1	
W7	VMX2979	WASHER	1	

12.2. VTR MECHANISM SECTION (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
101	VEK8838	STATOR U.	1	
102	VXP1977	ROTOR U.	1	
103	VXL2934	IDLER ARM U.	1	
104	VXP1975	CENTER CLUTCH U.	1	
105	VDV0388	CAPSTAN BERT	1	
106	VEK8850	MECHA. FLEX. U.	1	
107	VSH0173	SWITCH	2	
108	PT4800F	PHOTO TR	1	
109	GP1S097HCZM	REEL SENSOR	2	
110	GL480	LED	1	
B101	XQN14+A3	SCREW	3	
B102	XQN14+B25FY	SCREW	3	
W101	VMX2027	WASHER	1	
W102	VMX2939	WASHER	1	

12.3. VTR MECHANISM SECTION (3) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
150	VXA6562	GARAGE U.	1	
151	VXP1472	DUMPER U.	1	
154	VXL2950	TAPE GUIDE U.	1	
155	VXS0254	EARTH BRUSH U.	1	
B151	VHD0838	SCREW	4	
B152	XQN16+AJ8	SCREW	1	
B153	XQN14+BF2	SCREW	2	
B154	VHD0711	SCREW	1	

12.4. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
201	VDL1051	CRYSTAL FILTER	1	
202	VEK8856	CCD U.	1	
203	VMA9484	CCD FIXING PLATE	1	
204	0N1004-R	PHOTO INTERRUPTER	2	
205	VDW0670	MASTER FLANGE	1	
206	VJB20796	FLAT CARD CABLE	1	
207	VEM0712	ZOOM MOTOR U.	1	
208	VEM0713	FOCUS MOTOR U.	1	
209	VMB3392	F SPRING	1	
210	VML3486	LEVER	1	
211	VMP6163	PROTECT SHEET	1	
212	VMS6714	GUIDE POLE	2	
213	VXL2958	IRIS U.	1	
214	VXP1983	2ND. MOVING FRAME U.	1	
215	VXP1986	4TH. MOVING FRAME U.	1	
216	VXQ0884	MAIN FRAME U.	1	
217	VXQ0885	3RD. LENS FRAME U.	1	
218	VDW0672	F FIX FRAME	1	
219	VMS6494	F GUIDE POLE	1	
220	VXQ0886	F FRAME U.	1	
221	VMX2942	CCD CUSHION	1	
222	VXW0468	LENS U.	1	
223	VSP1083	DETECTION SW.	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
224	HT-120B	HALL SENSOR	1	
B201	VHD0852	SCREW	2	
B202	XQN16+CJ5	SCREW	11	
B203	XQN16+CJ8	SCREW	3	
B204	XQN16+CJ6	SCREW	2	

12.5. FRAME & CASING SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
301	VSC4600	H.A. SHIELD CASE	1	
302	VSC4959	POWER SHIELD CASE (UPPER)	1	
303	VSC4958	POWER SHIELD CASE (LOWER)	1	
304	VEK8865	REAR CASE U.	1	
305	MCVVQ410	EVF LCD PANEL	1	
306	VEK8867	BACK LIGHT U.	1	
307	VGQ5555	EVF PROTECT PANEL	1	
308	VGQ5556	EVF MASK	1	
309	VGQ5599	EVF SHEET	1	
310	VJB000F3	EVF FLEX.	1	
311	VJF1391	EVF MOUNT PIECE	1	
312	VKM5320	EVF CASE	1	
313	VXA6588	EVF HINGE U.	1	
314	VMG1272	EYE CAP	1	
315	VYQ1821	EYE CAP HOLDER U.	1	
316	VMP6167	LENS FRAME	1	
317	VGL0865	TALLY PANEL LIGHT	1	
318	VGQ5570	SELECT KNOB GUIDE	1	
319	VGU8350	FADE BUTTON	1	
320	VGU8351	SELECT KNOB	1	
321	VYK9286	FRONT CASE (1) U.	1	
322	VYQ1824	LENS COVER U.	1	
323	VEK8914	SPEAKER U.	1	
324	VGQ5571	SPEAKER PIECE	1	
325	VMC1575	SPEAKER FIXING SPRING	1	
326	VYQ1871	LENS HOOD U.	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
327	VGQ5736	MECHA. SENSOR BARRIER	1	
328	VGP5167	MAIN FRAME	1	
329	VGQ5735	PROTECT SHEET	1	
330	VMP6165	FRAME REINFORCEMENT PLATE	1	
331	VMP6166	MECHA. EARTH PLATE	1	
332	VMC1573	H.A. ERATH SPRING	1	
333	VKF3170	EVR COVER	1	
334	VEK8860	SIDE CASE (L) U.	1	
B301	XQN16+BJ4FZ	SCREW	2	
B302	XQN2+BJ5FZ	SCREW	4	
B303	VHD1140	SCREW	1	
B304	XQN2+BJ5	SCREW	9	
B305	XQN2+BF3	SCREW	2	
B306	XQN14+C25	SCREW	1	
B307	XQN2+BF4FN	SCREW	2	
B308	XQN2+BJ5	SCREW	2	
B309	XQN2+CF4	SCREW	1	
B310	XQN2+CF5	SCREW	2	
B311	XQN2+CF8FN	SCREW	1	
B312	XQN2+CF8FZ	SCREW	1	
B313	XQN2+CJ4FZ	SCREW	1	
B314	XQN2+CJ5	SCREW	4	
B315	XQN2+CJ6FZ	SCREW	6	
B316	XQN2+CJ8FZ	SCREW	1	

12.6. FRAME & CASING SECTION (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
401	VGQ5574	FLEX. PROTECT B ARRIER	1	
402	VGQ5581	BARRIER	1	
403	VMP6170	HINGE HOLDER PLATE	1	
404	EDTCA29QA0	MONITOR LCD PANEL	1	
405	VEK8887	BACK LIGHT U.	1	
406	VGL0867	DIFFUSION SHEET	1	
407	VGQ3457	PROTECTION BARRIER	1	
408	VGQ5573	LCD SHIELD SHEET	1	
409	VMP6172	HINGE REINFORCMENT PLATE	1	
410	VSC4973	LCD FRAME	1	
411	VGQ5577	HINGE COVER (UPPER)	1	
412	VGQ5578	HINGE COVER (LOWER)	1	
413	VXD0315	LCD HINGE (1) U.	1	
414	VYK9287	LCD CASE (UPPER) U.	1	
415	VMC1614	EARTH SPRING	1	
416	VGQ5633	PROTECT SHEET	2	
417	VGQ5572	LCD LOCK LEVER	1	
418	VKM5324	LCD CASE (LOWER)	1	
419	VMC1576	LCD LOCK SPRING	1	
420	VGQ5575	HINGE HOLDER	1	
421	VMP6171	HINGE MOUNT PLATE	1	
422	VSQ1041	LCD ROTATION MAGNET	2	
423	VGU8352	CASSETTE LOCK BUTTON	1	
424	VMB3300	CASSETTE COIL SPRING	1	
425	VYK9291	CASSETTE COVER (1) U.	1	
426	VYK9311	SIDE CASE (R)(1) UA	1	
428	VJB000F0	MONITOR FLEX.(1)	1	FP602 - FP903
429	VJB000F1	MONITOR FLEX.(2)	1	FP601 - FP904
B401	XQN2+B3FZ	SCREW	2	
B402	XQN2+BJ5	SCREW	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
B403	XQN2+BF25	SCREW	1	
B404	XQN2+BJ8FN	SCREW	2	
B405	XQN2+B35FN	SCREW	1	
B406	XQN2+CJ8	SCREW	2	
B407	XQN2+BF3	SCREW	1	
B408	XQN2+BF5FN	SCREW	1	
B409	XQN2+CJ35FZ	SCREW	2	
B410	XQN2+CJ7FZ	SCREW	5	
B411	VHD0794	SCREW	2	
B412	XQN2+CF55FZ	SCREW	1	
B413	XQN2+CJ4FZ	SCREW	1	
B414	XQN2+CJ6FZ	SCREW	2	

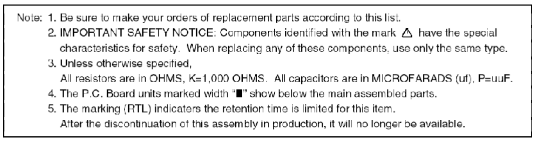
12.7. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
501	EUR646570	REMOTE CONTROLLER	1	
502	VFA0298	AV CORD	1	
503	VFC3299	SHOULDER STRAP	1	
504	VJA0664	AC CORD	1	NV-VZ1EG/E/EN/ENC ⚠
504	VJA0940	AC CORD	1	NV-VZ1B/ENH ⚠
504	VJA0754	AC CORD	1	NV-VZ1A ⚠
505	VJA1128	DC CORD	1	
506	VPN5108	ACCESSORIES BOX	1	NV-VZ1EG/E/EN/ENC/ENH/A
506	VPN5178	ACCESSORIES BOX	1	NV-VZ1B
507	VQT8406	OPERATING INSTRUCTIONS	1	NV-VZ1EG/E ⚠
		(GERMAN/ FRENCH DUTCH/ DANISH)		
507	VQT8407	OPERATING INSTRUCTIONS	1	NV-VZ1E ⚠
		(ITALIAN/ ENGLISH/ SPANISH/ SWEDISH)		
507	VQT8408	OPERATING INSTRUCTIONS	1	NV-VZ1B ⚠
		(ENGLISH)		
507	VQT8409	OPERATING INSTRUCTIONS	1	NV-VZ1EN/ENC/ENH ⚠
		(CHINISE/ ENGLISH/ RUSSIAN/ ARABIC)		
507	VQT8410	OPERATING INSTRUCTIONS	1	NV-VZ1A ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		(ENGLISH)		
507	VPG0B99	PACKING CASE	1	NV-VZ1EG
508	VPG0C00	PACKING CASE	1	NV-VZ1B
508	VPG0C01	PACKING CASE	1	NV-VZ1E
508	VPG0C02	PACKING CASE	1	NV-VZ1EN/ENH/A
508	VPG0C04	PACKING CASE	1	NV-VZ1ENC
509	VPN5323	CUSHION	1	

12.8. ELECTRICAL PARTS LIST



Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEP23504A	MAIN C.B.A.	1	(RTL)
■	VEP26236A	MONITOR C.B.A.	1	(RTL)
■	VEP28271A	E.V.F. C.B.A.	1	(RTL)
■	VEK8872	MIC UNIT	1	
■	VEP22295A	CCD FLEX. CARD C.B.A.	1	(RTL)
■	VEK8902	LENS FLEX. CARD C.B.A.	1	(RTL)
■	VEK8903	SENSOR FLEX. C.B.A.	1	
■	VEP23504A	MAIN C.B.A.	1	(RTL)
C305	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C306	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C307	VCEV1ARV101V	E.CAPACITOR CH 10V 100U	1	
C310	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C312	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C313	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C314	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C317	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C318	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C319	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C320	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C321	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C322	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C325	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C326	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C328	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C401	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C402	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C403	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C404	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C405	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C408	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C413	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C413	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C415	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C416	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C417	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C418	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C420	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C422	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C423	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C424	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C425	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C427	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C428	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C429	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C430	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C431	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C432	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C433	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C434	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	1	
C435	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C436	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C437	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C438	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C439	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C440	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C483	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C485	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C486	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C604	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C605	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C701	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C702	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C703	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C704	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C705	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C706	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C707	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C708	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C709	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C711	VCEV1CRV470V	E.CAPACITOR CH 16V 47U	1	
C712	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C713	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C715	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C719	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C721	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C1001	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1003	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1004	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1005	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1006	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1008	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C1009	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C1010	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1012	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1014	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1017	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	1	
C1019	ECUM1E334KBM	C.CAPACITOR CH 25V 0.33U	1	
C1020	ECUM1E334KBM	C.CAPACITOR CH 25V 0.33U	1	
C1022	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1026	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	1	
C1027	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1028	VCEV1HRVR47R	E.CAPACITOR CH 16V 47U	1	
C1030	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1032	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1033	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1034	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1035	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1037	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1041	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1046	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1051	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U	1	
C1055	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1057	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1063	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1064	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C1065	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C1066	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C1071	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C1080	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1081	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C1602	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1603	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1704	VCEV1CHY101V	E.CAPACITOR CH 16V 100U	1	
C1801	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	1	
C1802	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1803	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C1804	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C1807	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	1	
C1808	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2001	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2003	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2004	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C2005	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2006	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2007	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2008	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2010	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2011	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2012	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2013	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2014	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2015	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2016	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2017	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C2018	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C2019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2021	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2022	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2023	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2032	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C2034	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2035	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2036	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C2037	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3001	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3002	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3007	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3301	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3302	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3303	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C3304	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3305	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3306	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C3307	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3308	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3309	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3310	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3311	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3313	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3314	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C3315	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C3316	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3317	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3318	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3319	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3320	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C3321	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3322	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3323	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3324	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3325	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3326	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3327	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C3328	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3329	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3330	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3331	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3332	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C3333	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3334	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3335	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3336	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3337	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3338	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3339	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3341	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3342	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C3343	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3344	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3345	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3346	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3347	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3348	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3349	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3350	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C3351	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3352	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3353	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3354	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C3355	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3356	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	1	
C3357	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3358	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3361	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3362	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3363	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3370	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3380	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3505	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3511	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C3512	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C3513	VCEV0JRV220R	E.CAPACITOR CH 6.3V 22U	1	
C3517	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3552	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3662	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4002	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4003	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4004	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C4006	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4007	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4008	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4009	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C4010	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C4011	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4012	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	1	
C4013	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4014	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4015	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	1	
C4016	ECUM2A472JCM	C.CAPACITOR CH 100V 4700P	1	
C4017	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4018	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C4019	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4020	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C4021	ECST1CY335Z	T.CAPACITOR CH 16V 3.3U	1	
C4022	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C4023	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4024	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C4025	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4026	ECST1VY334Z	T.CAPACITOR CH 35V 0.33U	1	
C4027	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C4032	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C4033	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C4034	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4035	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4036	ECST0GY156Z	T.CAPACITOR CH 4V 15U	1	
C4037	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4038	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C4039	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4040	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4041	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4101	VCEV0JHY151V	E.CAPACITOR CH 6.3V 150U	1	
C4102	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4104	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C4105	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C4106	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U	1	
C4107	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C4801	ECUX1C823KBV	C.CAPACITOR CH 16V 0.082U	1	
C4803	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C4804	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4805	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C4806	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C4807	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4814	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C5001	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5002	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5003	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5004	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5005	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5006	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5007	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5008	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5010	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5011	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	

		[illegible]		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C5012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5013	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5014	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5015	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5016	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5018	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C5019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5021	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5023	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5041	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6001	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6004	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6005	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6006	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6007	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6009	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6010	VCEV1ARV101V	E.CAPACITOR CH 10V 100U	1	
C6011	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6013	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C6014	VCEV1CRV470V	E.CAPACITOR CH 16V 47U	1	
C6015	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6016	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6017	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6018	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C6019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6021	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6027	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6028	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C6029	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C6032	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6033	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6038	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C6039	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6040	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C6041	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C6042	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C6044	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6045	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6047	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6051	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C6053	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C6054	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	1	
C6056	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C6057	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C6058	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D301	MA111	DIODE	1	
D401	MA111	DIODE	1	
D601	MA111	DIODE	1	
D1002	MA111	DIODE	1	
D1003	MA111	DIODE	1	
D1004	MA132WK	DIODE	1	
D1009	02DZ22Y	DIODE	1	
D1015	EC10QS03L12	DIODE	1	
D1020	MA111	DIODE	1	
D1602	02DZ16Y	DIODE	1	
D1604	02DZ16Y	DIODE	1	
D1701	MA111	DIODE	1	
D1801	MA132WK	DIODE	1	
D1802	1SS357	DIODE	1	
D1803	MA132WK	DIODE	1	
D3303	MA111	DIODE	1	
D3304	MA111	DIODE	1	
D3305	MA111	DIODE	1	
D4001	1SS357	DIODE	1	
D4101	MA132WK	DIODE	1	
D6002	1SS357	DIODE	1	
D6010	MA132WA	DIODE	1	
D6016	MA133	DIODE	1	
D6020	1SS357	DIODE	1	
D6023	MA728	DIODE	1	
D6201	MA111	DIODE	1	
FL1601	VLF1378	FILTER	1	
FP601	VJS3931D014	CONNECTOR (FEMALE) 14P	1	
FP602	VJS4322A014	CONNECTOR (FEMALE) 14P	1	
FP701	VJS3319B021	CONNECTOR (FEMALE) 21P	1	
FP1001	VJS3931B010	CONNECTOR (FEMALE) 10P	1	
FP2001	VJS3931B019	CONNECTOR (FEMALE) 19P	1	
FP2002	VJS3913B007P	CONNECTOR (FEMALE) 7P	1	
FP4001	VJS3931B009	CONNECTOR (FEMALE) 9P	1	
FP4002	VJS3931B016	CONNECTOR (FEMALE) 16P	1	
FP5001	VJS2959B013	CONNECTOR (FEMALE) 13P	1	
FP6001	VJS3931B021	CONNECTOR (FEMALE) 21P	1	
FP6002	VJS3930B013	CONNECTOR (FEMALE) 13P	1	
FP6004	VJS3930B016	CONNECTOR (FEMALE) 16P	1	
IC302	C8269	IC	1	
IC315	MN31121SA	IC	1	
IC401	F712524CPBW	IC	1	
IC403	S817A33ANB	IC	1	
IC404	UPD6467GR504	IC	1	
IC405	TC7SH04FU	IC	1	
IC413	MN7E002B2S1	IC	1	
IC416	S817A30ANB	IC	1	
IC701	UPD16878GS	IC	1	
IC706	NJM2115V	IC	1	
IC711	TA75W01FU	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1001	BA9706K	IC	1	
IC2001	LB11951W	IC	1	
IC3301	AN3501NFBP	IC	1	
IC3302	TL8850AF	IC	1	
IC3502	TK15407M	IC	1	
IC4001	BA7758FS	IC	1	
IC4002	BA6305FV	IC	1	
IC4003	TA75S393F	IC	1	
IC4101	NJM2166V	IC	1	
IC5001	AN3355FHP	IC	1	
IC6002	RS5C426M	IC	1	
IC6003	MN103004KCP	IC	1	
IC6008	AK6480AM	IC	1	
IC6009	S80825ANNP	IC	1	
IC6010	XC62FP5002PR	IC	1	
IC6011	XC62FP3002MR	IC	1	
L305	VLQ0910K100	COIL 10UH	1	
L401	VLQ0910K100	COIL 10UH	1	
L403	ELJFA390JB	CHIP INDUCTOR 39UH	1	
L407	VLQ0909J2R2	COIL 2.2UH	1	
L408	VLQ0909J220	COIL 22UH	1	
L701	VLQ0426J100	COIL 10UH	1	
L702	VLQ0426J100	COIL 10UH	1	
L703	VLQ0319K100	COIL 10UH	1	
L1001	VLQ0902M4R7	COIL 4.7UH	1	
L1002	VLQ0827M220	COIL 22UH	1	
L1003	VLQ0902M4R7	COIL 4.7UH	1	
L1004	VLQ0319K100	COIL 10UH	1	
L1006	VLQ0319K100	COIL 10UH	1	
L1007	VLQ0827M470	COIL 47UH	1	
L1008	VLQ0319M4R7	COIL 4.7UH	1	
L1010	VLQ0319K100	COIL 10UH	1	
L1011	VLQ0319K101	COIL 100UH	1	
L1014	VLQ0319K100	COIL 10UH	1	
L1015	ELJPA470KB	COIL 47UH	1	
L1061	VLQ0827M330	COIL 33UH	1	
L1062	VLQ0827M330	COIL 33UH	1	
L1801	VLQ0319K100	COIL 10UH	1	
L3001	ELJFA820JB	CHIP INDUCTOR 82UH	1	
L3005	ELJFA121JB	CHIP INDUCTOR 120UH	1	
L3302	ELJFA120JB	CHIP INDUCTOR 12UH	1	
L3303	VLQ0909J220	COIL 22UH	1	
L3304	VLQ0910K470	COIL 47UH	1	
L3305	VLQ0910K470	COIL 47UH	1	
L3306	VLQ0910K470	COIL 47UH	1	
L3307	VLQ0910K470	COIL 47UH	1	
L3308	ELJFA820JB	CHIP INDUCTOR 82UH	1	
L3309	VLQ0163J471	COIL 470UH	1	
L3320	VLQ0909J330	COIL 33UH	1	
L3501	VLQ0910K100	COIL 10UH	1	
L4001	ELJPA470KB	COIL 47UH	1	
L4005	VLQ0319K101	COIL 100UH	1	
L4006	VLQ0909J101	COIL 100UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L4102	VLQ0319K101	COIL 100UH	1	
L5001	VLQ0910K470	COIL 47UH	1	
L5002	VLQ0910K470	COIL 47UH	1	
L5003	VLQ0910K470	COIL 47UH	1	
L5004	VLQ0910K470	COIL 47UH	1	
LB301	VLP0153	COIL	1	
LB302	VLP0153	COIL	1	
LB303	VLP0175	COIL	1	
LB402	VLP0175	COIL	1	
LB403	VLP0175	COIL	1	
LB404	VLP0175	COIL	1	
LB411	VLP0175	COIL	1	
LB412	VLP0175	COIL	1	
LB5001	VLP0319A121T	CHIP BEAD	1	
LB5002	VLP0319A121T	CHIP BEAD	1	
LB5003	VLP0319A121T	CHIP BEAD	1	
LB5004	VLP0319A121T	CHIP BEAD	1	
LB6002	VLP0153	COIL	1	
LB6003	VLP0153	COIL	1	
LB6004	VLP0153	COIL	1	
PP301	VJP3358A012	CONNECTOR (MALE) 12P	1	
PP3001	VJP3359D040	CONNECTOR (MALE) 40P	1	
PS1003	VJS4005B006	CONNECTOR (FEMALE) 6P	1	
PS3510	VJS4005B004	CONNECTOR (FEMALE) 4P	1	
Q301	2SC4627	TRANSISTOR	1	
Q303	HN1B04FUGRR	TRANSISTOR	1	
Q304	2SA1832FY	TRANSISTOR	1	
Q404	2SA1774HR	TRANSISTOR	1	
Q405	HN1A01FUYR	TRANSISTOR	1	
Q601	HN1B04FUGRR	TRANSISTOR	1	
Q602	2SA1832FY	TRANSISTOR	1	
Q704	2SC2712GR	TRANSISTOR	1	
Q780	2SD874	TRANSISTOR	1	
Q781	2SA1832FY	TRANSISTOR	1	
Q1001	2SB1073	TRANSISTOR	1	
Q1002	2SC4738FY	TRANSISTOR	1	
Q1003	MPL1	TRANSISTOR	1	
Q1004	2SD2210	TRANSISTOR	1	
Q1006	2SA1832FY	TRANSISTOR	1	
Q1007	2SC4944YR	TRANSISTOR	1	
Q1008	2SC4738FY	TRANSISTOR	1	
Q1010	2SA1832FY	TRANSISTOR	1	
Q1061	MPL1	TRANSISTOR	1	
Q1062	MPL1	TRANSISTOR	1	
Q1702	2SC4738FY	TRANSISTOR	1	
Q1801	2SC4738FY	TRANSISTOR	1	
Q1802	2SC4738FY	TRANSISTOR	1	
Q1803	2SA1873YL	TRANSISTOR	1	
Q1804	2SA1832FY	TRANSISTOR	1	
Q1806	HN1B04FUGRR	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1807	2SC4738FY	TRANSISTOR	1	
Q1808	2SA1873YL	TRANSISTOR	1	
Q1809	2SC4738FY	TRANSISTOR	1	
Q1810	2SA1873YL	TRANSISTOR	1	
Q1811	2SC4738FY	TRANSISTOR	1	
Q1812	2SC4738FY	TRANSISTOR	1	
Q1813	2SA1832FY	TRANSISTOR	1	
Q1814	2SC4944YR	TRANSISTOR	1	
Q2001	2SC4738FY	TRANSISTOR	1	
Q3001	2SB1219	TRANSISTOR	1	
Q3301	2SA1774HR	TRANSISTOR	1	
Q3302	2SA1832FY	TRANSISTOR	1	
Q3303	2SC4738FY	TRANSISTOR	1	
Q3320	2SA1832FY	TRANSISTOR	1	
Q4002	2SD602-R	TRANSISTOR	1	
Q4003	2SB1219	TRANSISTOR	1	
Q4005	XP4501	TRANSISTOR-TRANSISTOR	1	
Q4006	2SC4617HR	TRANSISTOR	1	
Q4009	2SC4617HR	TRANSISTOR	1	
Q4801	2SC4617HR	TRANSISTOR	1	
Q4802	2SC4617HR	TRANSISTOR	1	
Q4803	2SC4617HR	TRANSISTOR	1	
Q5001	HN1C03FBR	TRANSISTOR	1	
Q5002	HN1C03FBR	TRANSISTOR	1	
Q5003	2SA812	TRANSISTOR	1	
Q6001	2SC3295A	TRANSISTOR	1	
Q6002	2SA1832FY	TRANSISTOR	1	
Q6003	2SC4738FY	TRANSISTOR	1	
Q6004	2SC4738FY	TRANSISTOR	1	
Q6006	2SC4944YR	TRANSISTOR	1	
QR401	RN2103F	TRANSISTOR-RESISTOR	1	
QR402	RN2107F	TRANSISTOR-RESISTOR	1	
QR404	RN1704R	TRANSISTOR-RESISTOR	1	
QR405	RN1104F	TRANSISTOR-RESISTOR	1	
QR701	RN1102F	TRANSISTOR-RESISTOR	1	
QR781	UN2130X	TRANSISTOR-RESISTOR	1	
QR782	RN1103F	TRANSISTOR-RESISTOR	1	
QR1001	RN2102F	TRANSISTOR-RESISTOR	1	
QR1002	UN2130X	TRANSISTOR-RESISTOR	1	
QR1003	RN2103F	TRANSISTOR-RESISTOR	1	
QR1005	RN1112F	TRANSISTOR-RESISTOR	1	
QR1061	RN2111F	TRANSISTOR-RESISTOR	1	
QR1701	RN2111F	TRANSISTOR-RESISTOR	1	
QR1802	RN2103F	TRANSISTOR-RESISTOR	1	
QR1803	UN2130X	TRANSISTOR-RESISTOR	1	
QR2001	RN1111F	TRANSISTOR-RESISTOR	1	
QR3002	RN1103F	TRANSISTOR-RESISTOR	1	
QR3301	RN2103F	TRANSISTOR-RESISTOR	1	
QR3302	RN1103F	TRANSISTOR-RESISTOR	1	
QR3305	RN1104F	TRANSISTOR-RESISTOR	1	
QR3306	RN2103F	TRANSISTOR-RESISTOR	1	
QR3307	RN1104F	TRANSISTOR-RESISTOR	1	
QR3308	RN2103F	TRANSISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR3309	RN1104F	TRANSISTOR-RESISTOR	1	
QR3310	RN1104F	TRANSISTOR-RESISTOR	1	
QR3311	RN2103F	TRANSISTOR-RESISTOR	1	
QR4001	RN1103F	TRANSISTOR-RESISTOR	1	
QR4002	RN2103F	TRANSISTOR-RESISTOR	1	
QR4004	RN2103F	TRANSISTOR-RESISTOR	1	
QR6001	RN1111F	TRANSISTOR-RESISTOR	1	
QR6002	UN911EJ	TRANSISTOR-RESISTOR	1	
QR6003	RN1711R	TRANSISTOR-RESISTOR	1	
QR6004	RN1711R	TRANSISTOR-RESISTOR	1	
QR6005	RN2103F	TRANSISTOR-RESISTOR	1	
QR6007	RN1102F	TRANSISTOR-RESISTOR	1	
QR6009	RN1113F	TRANSISTOR-RESISTOR	1	
QR6013	RN2111F	TRANSISTOR-RESISTOR	1	
QR6014	RN1111F	TRANSISTOR-RESISTOR	1	
QR6050	RN1704R	TRANSISTOR-RESISTOR	1	
QR6801	RN2111F	TRANSISTOR-RESISTOR	1	
R201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R219	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R253	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R301	ERJ3RBD622	M.RESISTOR CH 1/16W 6.2K	1	
R302	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R303	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R304	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R305	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R309	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R312	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R313	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R315	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R316	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R318	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R403	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R406	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R409	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R412	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R413	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R414	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R415	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R416	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R417	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R418	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R419	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R420	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R421	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R422	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R423	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R424	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R425	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R426	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R427	ERJ3RBD621	M.RESISTOR CH 1/16W 620	1	
R428	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R430	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R431	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R433	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R434	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R436	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R437	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R438	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R440	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R444	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R445	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R446	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R447	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R448	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R449	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R450	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R451	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R458	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R459	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R470	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R476	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R477	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R479	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R480	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R481	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R482	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R601	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R602	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R603	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R604	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R605	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R606	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R607	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R608	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R609	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R620	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R621	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R622	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R623	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R624	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R625	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R626	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R701	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	
R702	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	
R703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R704	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	
R705	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	1	
R706	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R707	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R712	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R713	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R714	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R716	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R717	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R718	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R722	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R723	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R726	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R727	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R728	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R729	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R730	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R731	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R732	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R733	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R734	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R735	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R736	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R737	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R738	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R740	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R743	**ERJ3RBD752**	**M.RESISTOR CH 1/16W 7.5K**	**1**	
R745	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R761	**ERJ3RBD222**	**M.RESISTOR CH 1/16W 2.2K**	**1**	
R780	**ERJ6GEYJ150**	**M.RESISTOR CH 1/10W 15**	**1**	
R781	**ERJ3GEYJ102**	**M.RESISTOR CH 1/16W 1K**	**1**	
R782	**ERJ3GEYJ122**	**M.RESISTOR CH 1/16W 1.2K**	**1**	
R783	**ERJ6GEYJ150**	**M.RESISTOR CH 1/10W 15**	**1**	
R784	**ERJ3GEYJ222**	**M.RESISTOR CH 1/16W 2.2K**	**1**	
R785	**ERJ3GEYJ222**	**M.RESISTOR CH 1/16W 2.2K**	**1**	
R1001	**ERJ3RBD822**	**M.RESISTOR CH 1/16W 8.2K**	**1**	
R1002	**ERJ3RBD272**	**M.RESISTOR CH 1/16W 2.7K**	**1**	
R1004	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R1005	**ERJ3RBD472**	**M.RESISTOR CH 1/16W 4.7K**	**1**	
R1006	**ERJ3RBD272**	**M.RESISTOR CH 1/16W 2.7K**	**1**	
R1007	**ERJ8GEYJ330**	**M.RESISTOR CH 1/8W 33**	**1**	
R1008	**ERJ3RBD183**	**M.RESISTOR CH 1/16W 18K**	**1**	
R1009	**ERJ3RBD152**	**M.RESISTOR CH 1/16W 1.5K**	**1**	
R1010	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R1012	**ERJ6RHD1872**	**M.RESISTOR CH 1/10W 18.7K**	**1**	
R1013	**ERJ6RBD473**	**M.RESISTOR CH 1/10W 47K**	**1**	
R1014	**ERJ6RBD182**	**M.RESISTOR CH 1/10W 1.8K**	**1**	
R1015	**ERJ6RBD182**	**M.RESISTOR CH 1/10W 1.8K**	**1**	
R1016	**ERJ3RBD153**	**M.RESISTOR CH 1/16W 15K**	**1**	
R1017	**ERJ3GEYJ102**	**M.RESISTOR CH 1/16W 1K**	**1**	
R1018	**ERJ3GEYJ151**	**M.RESISTOR CH 1/16W 150**	**1**	
R1019	**ERJ3GEYJ332**	**M.RESISTOR CH 1/16W 3.3K**	**1**	
R1020	**ERJ3GEYJ151**	**M.RESISTOR CH 1/16W 150**	**1**	
R1021	**ERJ3GEYJ330**	**M.RESISTOR CH 1/16W 33**	**1**	
R1022	**ERJ3GEYJ220**	**M.RESISTOR CH 1/16W 22**	**1**	
R1023	**ERJ3GEYJ182**	**M.RESISTOR CH 1/16W 1.8K**	**1**	
R1024	**ERJ3GEYJ470**	**M.RESISTOR CH 1/16W 47**	**1**	
R1025	**ERJ3GEYJ223**	**M.RESISTOR CH 1/16W 22K**	**1**	
R1028	**ERJ3GEY0R00**	**M.RESISTOR CH 1/16W 0**	**1**	
R1029	**ERJ3GEYJ473**	**M.RESISTOR CH 1/16W 47K**	**1**	
R1030	**ERJ3GEYJ473**	**M.RESISTOR CH 1/16W 47K**	**1**	
R1035	**ERJ3GEYJ470**	**M.RESISTOR CH 1/16W 47**	**1**	
R1038	**ERJ3RBD101**	**M.RESISTOR CH 1/16W 100**	**1**	
R1039	**ERJ3RBD561**	**M.RESISTOR CH 1/16W 560**	**1**	
R1040	**ERJ3RBD101**	**M.RESISTOR CH 1/16W 100**	**1**	
R1041	**ERJ6RBD683**	**M.RESISTOR CH 1/10W 68K**	**1**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1042	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R1043	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1044	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1052	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R1053	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1057	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1063	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1064	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1065	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1066	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1067	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1068	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R1069	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1071	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1072	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1073	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1085	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1086	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1601	VSF0226D25T	FUSE	1	⚠
R1602	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1603	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R1606	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R1607	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R1699	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1704	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1705	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1706	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R1707	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R1709	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1710	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1801	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1802	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R1803	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R1804	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R1805	ERJ6RED514	M.RESISTOR CH 1/10W 510K	1	
R1806	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1807	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1808	**ERJ3GEYJ224**	**M.RESISTOR CH 1/16W 220K**	**1**	
R1809	**ERJ3GEYJ333**	**M.RESISTOR CH 1/16W 33K**	**1**	
R1810	**ERJ3GEYJ104**	**M.RESISTOR CH 1/16W 100K**	**1**	
R1811	**ERJ3GEYJ102**	**M.RESISTOR CH 1/16W 1K**	**1**	
R1812	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R1814	**ERJ3GEYJ153**	**M.RESISTOR CH 1/16W 15K**	**1**	
R1819	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R1823	**ERJ3GEYJ683**	**M.RESISTOR CH 1/16W 68K**	**1**	
R1824	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R1825	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R1826	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R1827	**ERJ3GEYJ273**	**M.RESISTOR CH 1/16W 27K**	**1**	
R1828	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R1829	**ERJ3GEYJ124**	**M.RESISTOR CH 1/16W 120K**	**1**	
R1830	**ERJ3RBD223**	**M.RESISTOR CH 1/16W 22K**	**1**	
R1831	**ERJ3RBD182**	**M.RESISTOR CH 1/16W 1.8K**	**1**	
R1832	**ERJ3GEYJ153**	**M.RESISTOR CH 1/16W 15K**	**1**	
R1833	**ERJ6RBD683**	**M.RESISTOR CH 1/10W 68K**	**1**	
R1834	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R1836	**ERJ6RED274**	**M.RESISTOR CH 1/10W 270K**	**1**	
R1838	**ERJ3RBD332**	**M.RESISTOR CH 1/16W 3.3K**	**1**	
R1839	**ERJ3RBD391**	**M.RESISTOR CH 1/16W 390**	**1**	
R1840	**ERJ3RBD683**	**M.RESISTOR CH 1/16W 68K**	**1**	
R1841	**ERJ3GEYJ133**	**M.RESISTOR CH 1/16W 13K**	**1**	
R2001	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R2002	**ERJ3GEYJ273**	**M.RESISTOR CH 1/16W 27K**	**1**	
R2003	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R2004	**ERJ3GEYJ102**	**M.RESISTOR CH 1/16W 1K**	**1**	
R2005	**ERJ3GEYJ224**	**M.RESISTOR CH 1/16W 220K**	**1**	
R2006	**ERJ3GEYJ222**	**M.RESISTOR CH 1/16W 2.2K**	**1**	
R2007	**ERJ3GEYJ154**	**M.RESISTOR CH 1/16W 150K**	**1**	
R2008	**ERJ3GEYJ474**	**M.RESISTOR CH 1/16W 470K**	**1**	
R2009	**ERJ3GEYJ392**	**M.RESISTOR CH 1/16W 3.9K**	**1**	
R2010	**ERJ3GEYJ222**	**M.RESISTOR CH 1/16W 2.2K**	**1**	
R2011	**ERJ8GEYJR33**	**M.RESISTOR CH 1/8W 0.33**	**1**	
R2012	**ERJ8RQJR22**	**M.RESISTOR CH 1/8W 0.22**	**1**	
R2013	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2014	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R2015	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R2016	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R2017	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R2018	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R2019	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R2021	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R2022	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3001	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R3002	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3003	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3004	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3005	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3017	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3040	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R3041	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R3042	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3301	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3302	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3303	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3306	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	
R3307	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3308	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R3309	ERJ3GEYJ125	M.RESISTOR CH 1/16W 1.2M	1	
R3310	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	
R3311	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R3312	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R3314	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3316	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R3317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3318	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R3319	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3322	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3323	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R3325	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3326	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3327	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R3328	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3331	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3332	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3333	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3334	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3341	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R3342	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3344	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3345	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3346	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3350	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3351	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R3352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3504	ERJ3RED620	M.RESISTOR CH 1/16W 62	1	
R3508	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R3509	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R3510	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R3551	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4002	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	1	
R4003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4004	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4005	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	1	
R4006	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R4007	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4008	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R4009	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4010	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R4011	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4012	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4013	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R4014	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4015	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4016	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4017	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4018	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4019	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4020	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1	
R4021	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R4022	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4023	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4024	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4025	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4026	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R4030	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4031	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4032	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R4033	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4034	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4035	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4036	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4037	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4038	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R4039	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4040	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4041	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4042	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4043	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4044	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R4102	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4103	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4104	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4106	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4107	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4801	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4802	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4803	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4804	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R4805	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R4806	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R4807	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4808	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R4809	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R4810	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R4811	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4812	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4817	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5002	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5003	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R5004	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R5005	ERJ3GEYG113	M.RESISTOR CH 1/16W 11K	1	
R5006	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5007	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R5008	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6001	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6002	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6004	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6005	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	
R6006	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6007	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6008	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6009	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R6010	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R6011	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6012	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6013	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6014	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6017	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R6018	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6019	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6020	ERJ3GEYG333	M.RESISTOR CH 1/16W 33K	1	
R6021	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6022	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6023	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6024	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6025	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R6026	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R6027	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6028	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6029	ERJ3GEYJ304	M.RESISTOR CH 1/16W 30K	1	
R6030	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6031	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6032	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6033	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	1	
R6034	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6035	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6036	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6038	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6039	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6040	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6041	ERJ8GEYJ120	M.RESISTOR CH 1/8W 12	1	
R6042	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6043	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6044	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6046	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6048	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6051	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6052	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6053	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6054	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6055	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6056	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6057	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6058	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R6059	ERJ3RBD433	M.RESISTOR CH 1/16W 47K	1	
R6060	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6061	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6062	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6063	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6064	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	1	
R6065	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6066	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6067	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6068	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6069	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6070	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R6071	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R6072	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R6075	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6078	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6079	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6080	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R6081	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6082	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6083	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6085	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6086	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6088	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6089	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6092	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6093	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6094	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6095	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R6097	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R6100	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6101	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R6103	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R6104	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6105	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6106	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R6107	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R6108	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6109	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6110	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R6111	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R6112	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6113	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6114	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6116	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6117	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R6118	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6119	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6120	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R6121	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6122	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R6123	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R6131	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R6132	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6133	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R6211	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R6801	ERJ8GEYJ101	M.RESISTOR CH 1/8W 100	1	
R6802	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
RA301	EXBV4V104J	RESISTOR-RESISTOR	1	
RA601	EXBV4V223J	RESISTOR-RESISTOR	1	
RA704	EXBV4V473J	RESISTOR-RESISTOR	1	
RA6001	EXBV4V102J	RESISTOR-RESISTOR	1	
RA6002	EXBV4V272J	RESISTOR-RESISTOR	1	
RA6008	EXBV4V683J	RESISTOR-RESISTOR	1	
RA6010	EXBV8V102J	RESISTOR-RESISTOR	1	
T1001	VTP0534	TRANSFORMER	1	
T4001	VLQ0905	OSCILLATOR COIL	1	
W202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W402	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
W403	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W405	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W6001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
W6004	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
X402	VSX1100	CRYSTAL OSCILLATOR	1	
X6001	VSX0917	CRYSTAL OSCILLATOR	1	
X6002	VSX0601	CRYSTAL OSCILLATOR	1	
■	VEP26236A	MONITOR C.B.A.		(RTL)
C901	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C902	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C903	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C904	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C905	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C906	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C907	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C908	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C909	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C910	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C911	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C912	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C913	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C915	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C918	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C919	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C920	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C921	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C922	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C923	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C924	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C925	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C926	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C927	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C929	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C930	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C931	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C932	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C933	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C934	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C935	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C936	ECST1EC106	T.CAPACITOR CH 25V 10U	1	
C937	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C938	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C939	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C940	ECST0JY475Z	T.CAPACITOR CH 6.3V 4.7U	1	
C941	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C942	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C943	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C944	ECHU1H393JB	P.CAPACITOR CH 50V 0.039U	1	
C945	ECUM1C106VBP	C.CAPACITOR CH 16V 10U	1	
C946	VCK0291D100	CERAMIC CAPACITOR	1	
C947	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C948	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C949	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C950	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C954	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C955	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C956	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C960	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	1	
C961	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C962	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C963	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	

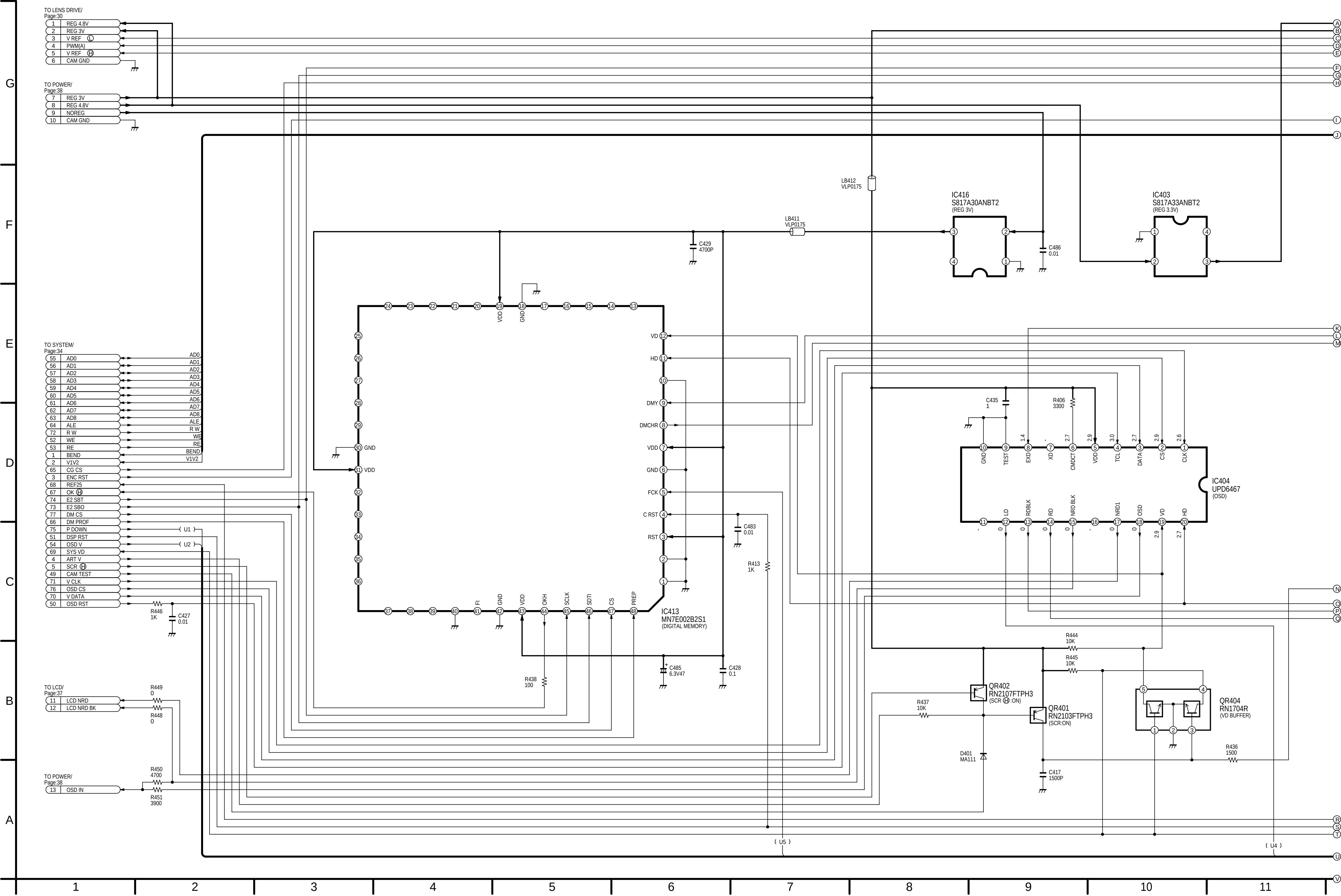
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C965	**ECUX1H103KBV**	**C.CAPACITOR CH 50V 0.01U**	**1**	
C966	**ECUX1H103KBV**	**C.CAPACITOR CH 50V 0.01U**	**1**	
C967	**ECUX1H181JCV**	**C.CAPACITOR CH 50V 180P**	**1**	
C968	**ECUM1A105KBN**	**C.CAPACITOR CH 10V 1U**	**1**	
C969	**ECUX1H103KBV**	**C.CAPACITOR CH 50V 0.01U**	**1**	
D901	**MA111**	**DIODE**	**1**	
D902	**MA133**	**DIODE**	**1**	
D903	**MA133**	**DIODE**	**1**	
D904	**MA334B**	**DIODE**	**1**	
D905	**RB520S30**	**DIODE**	**1**	
FP901	**VJS3320B024**	**CONNECTOR (FEMALE) 24P**	**1**	
FP902	**VJS3931B006**	**CONNECTOR (FEMALE) 6P**	**1**	
FP903	**VJS3320B014**	**CONNECTOR (FEMALE) 14P**	**1**	
FP904	**VJS3320B014**	**CONNECTOR (FEMALE) 14P**	**1**	
IC901	**AN2533FH**	**IC**	**1**	
IC902	**NJM2904V**	**IC**	**1**	
IC903	**TL5001CPS**	**IC**	**1**	
IC905	**TA75S558F**	**IC**	**1**	
L901	**VLQ0827M820**	**COIL 82UH**	**1**	
L903	**VLQ0909J330**	**COIL 33UH**	**1**	
L904	**VLQ0910K470**	**COIL 47UH**	**1**	
L905	**VLQ0910K470**	**COIL 47UH**	**1**	
L906	**VLQ0910M4R7**	**COIL 4.7UH**	**1**	
LB901	**VLP0175**	**COIL**	**1**	
LB902	**VLP0175**	**COIL**	**1**	
Q901	**HN1C01FUYR**	**TRANSISTOR**	**1**	
Q902	**2SC4738FY**	**TRANSISTOR**	**1**	
Q903	**2SA1774HR**	**TRANSISTOR**	**1**	
Q904	**2SD874A**	**TRANSISTOR**	**1**	
Q905	**2SD874A**	**TRANSISTOR**	**1**	
Q907	**2SC4738FY**	**TRANSISTOR**	**1**	
QR901	**RN2102F**	**TRANSISTOR-RESISTOR**	**1**	
QR902	**RN1104F**	**TRANSISTOR-RESISTOR**	**1**	
QR903	**MPL1**	**TRANSISTOR**	**1**	
QR904	**RN1104F**	**TRANSISTOR-RESISTOR**	**1**	
QR905	**RN1110F**	**TRANSISTOR-RESISTOR**	**1**	
R901	**ERJ3GEYJ104**	**M.RESISTOR CH 1/16W 100K**	**1**	
R902	**ERJ3GEYJ100**	**M.RESISTOR CH 1/16W 10**	**1**	
R903	**ERJ3GEYJ273**	**M.RESISTOR CH 1/16W 27K**	**1**	
R904	**ERJ3GEYJ561**	**M.RESISTOR CH 1/16W 560**	**1**	
R905	**ERJ3GEYJ103**	**M.RESISTOR CH 1/16W 10K**	**1**	
R906	**ERJ3GEYJ564**	**M.RESISTOR CH 1/16W 560K**	**1**	
R907	**ERJ3GEYJ153**	**M.RESISTOR CH 1/16W 15K**	**1**	
R908	**ERJ3GEYJ153**	**M.RESISTOR CH 1/16W 15K**	**1**	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R909	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R910	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R911	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R913	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R914	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R915	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R916	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R917	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R918	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R919	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R920	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R921	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R922	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R923	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R924	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R926	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R927	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R928	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R929	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R930	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R931	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R934	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R935	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R936	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R937	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R938	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R939	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R940	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R941	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R942	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R944	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R945	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R946	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R947	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R948	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R949	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R950	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R951	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R952	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R953	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R954	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R955	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R956	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R957	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
R958	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R959	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R960	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R961	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R962	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R963	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R967	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R968	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R969	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R970	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R971	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R972	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R973	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R974	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R975	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R976	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	1	
T901	ETJ11K96AM	TRANSFORMER	1	
X901	VSX0672	CRYSTAL OSCILLATOR	1	
■	VEP28271A	E.V.F. C.B.A.	1	(RTL)
C801	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C802	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C803	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C804	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C805	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C806	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C807	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C808	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C809	ECST1EX335Z	T.CAPACITOR CH 25V 3.3U	1	
C812	ECST0JY106Z	T.CAPACITOR CH 6.3V 10U	1	
C813	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C814	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C815	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C816	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C817	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	1	
C818	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	1	
C819	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
FP802	VJS4365B020	CONNECTOR (FEMALE) 20P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FP803	VJS4297B010	CONNECTOR (FEMALE) 10P	1	
IC801	MCVVQ110CFB	IC	1	
IC802	TC7W74FU	IC	1	
L800	VLQ0910K470	COIL 47UH	1	
R802	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R803	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R804	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R805	ERJ3GEYJ112	M.RESISTOR CH 1/16W 1.1K	1	
R807	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R809	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R810	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R812	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
■	VEK8872	MIC UNIT		
C6801	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
D6801	BR2202S-20B1	DIODE	1	
D6802	PH310	DIODE	1	
D6803	SLR738AV50AC	LED	1	
D6804	SLR738AV50AC	LED	1	
IC6801	PNA4611M05VT	IR RECEIVER	1	
L6801	VLQEL05S101K	COIL 100UH	1	
P6802	VJP3331B002	CONNECTOR (MALE) 2P	1	
SW6801	EVQ6QF02K	SWITCH	1	
■	VEP22295A	CCD FLEX. CARD C.B.A.		(RTL)
C292	ECST1VX225Z	T.CAPACITOR CH 35V 2.2U	1	
C295	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
D291	MA153	DIODE	1	
PS291	VJS3500C012	CONNECTOR (FEMALE) 12P	1	
Q291	2SC2295	TRANSISTOR	1	
R291	ERJ6GEYJ560	M.RESISTOR CH 1/10W 56	1	
R292	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R293	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
		MISCELLANEOUS		
	VJB22295	FLEX. CARD	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	VEK8902	LENS FLEX. CARD C.B.A.		(RTL)
		MISCELLA- NEOUS		
	HT-120B	HALL SENSOR	1	
	VSP1083	0LUX SWITCH	1	
■	VEK8903	SENSOR FLEX. C.B.A.		
IC991	DN8797MSC	IC	1	
IC992	DN8797MSC	IC	1	


TO LENS DRIVE/
Page:30
1 REG 4.8V
2 REG 3V
3 V REF Ⓛ
4 PWM(A)
5 V REF Ⓗ
6 CAM GND
TO POWER/
Page:38
7 REG 3V
8 REG 4.8V
9 NOREG
10 CAM GND
TO SYSTEM/
Page:34
55 AD0
56 AD1
57 AD2
58 AD3
59 AD4
60 AD5
61 AD6
62 AD7
63 AD8
64 ALE
72 R W
52 WE
53 RE
1 BEND
2 V1V2
65 CG CS
3 ENC RST
68 REF25
67 OK Ⓗ
74 E2 SBT
73 E2 SBO
77 DM CS
66 DM PROF
75 P DOWN
51 DSP RST
54 OSD V
69 SYS VD
4 ART V
5 SCR Ⓗ
49 CAM TEST
71 V CLK
76 OSD CS
70 V DATA
50 OSD RST
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
ALE
R W
WE
RE
BEND
V1V2
U1
U2
R446
1K
C427
0.01
TO LCD/
Page:37
11 LCD NRD
12 LCD NRD BK
R449
0
R448
0
TO POWER/
Page:38
13 OSD IN
R450
4700
R451
3900
IC413
MN7E002B2S1
(DIGITAL MEMORY)
VDD
GND
VD
HD
DMY
DMCHR
VDD
GND
FCK
C RST
RST
GND
VDD
FI
GND
VDD
OKH
SCLK
SDTI
CS
PREP
R438
100
C485
6.3V47
C428
0.1
C429
4700P
C483
0.01
R413
1K
LB411
VLP0175
LB412
VLP0175
IC416
S817A30ANBT2
(REG 3V)
C486
0.01
IC403
S817A33ANBT2
(REG 3.3V)
C435
1
R406
3300
IC404
UPD6467
(OSD)
GND
TEST
EXD
XD
CMDCT
VDD
TCL
DATA
CS
CLK
LD
RDBLK
RD
NRD BLK
NRD1
OSD
VD
HD
1.4
-
2.7
2.9
3.0
2.7
2.9
2.6
-
0
0
0
0
-
0
0
2.9
2.7
R444
10K
R445
10K
QR402
RN2107FTPH3
(SCR Ⓗ:ON)
QR401
RN2103FTPH3
(SCR:ON)
R437
10K
D401
MA111
C417
1500P
QR404
RN1704R
(VD BUFFER)
R436
1500
(U5)
(U4)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
G
F
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A
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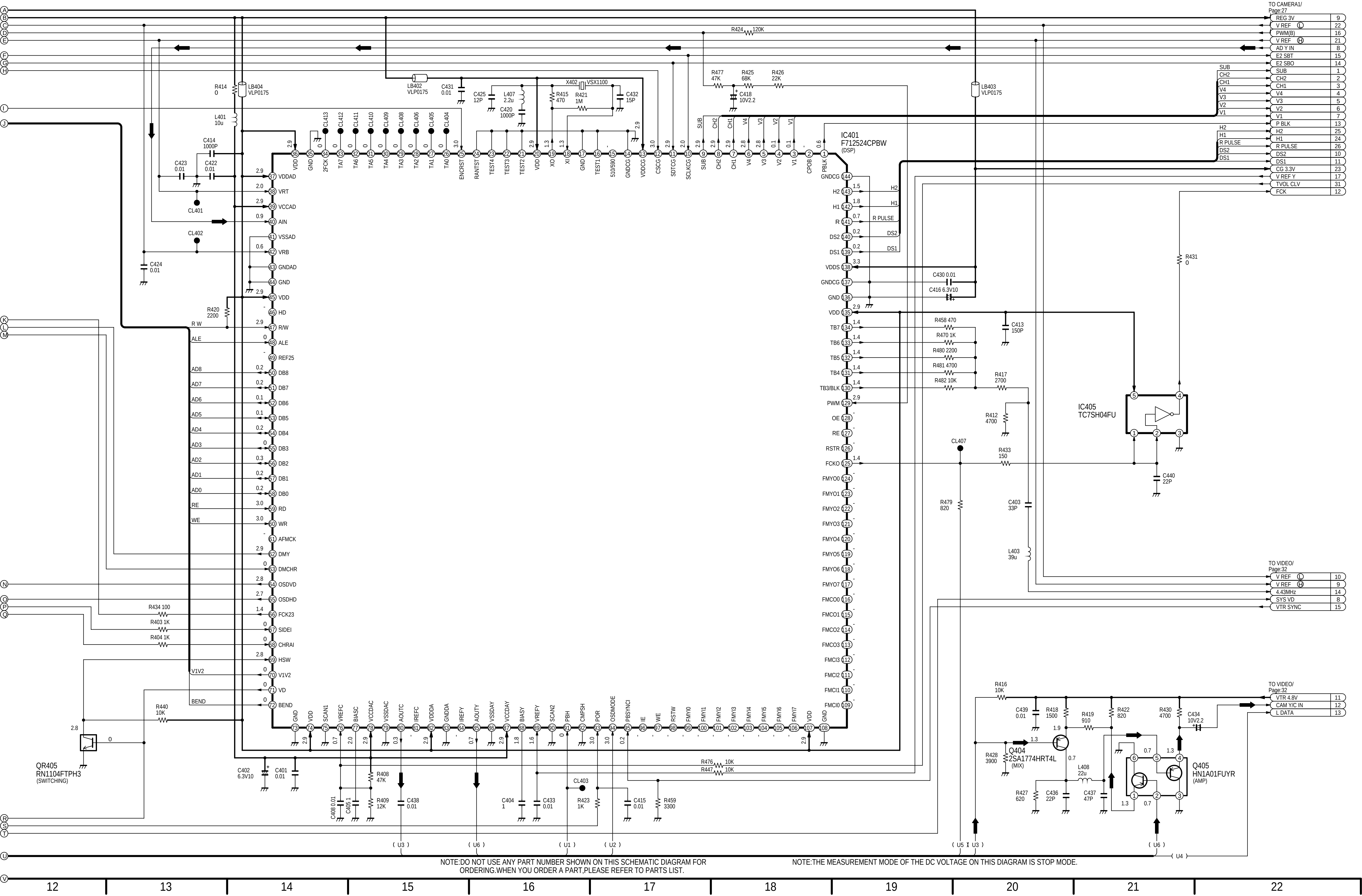
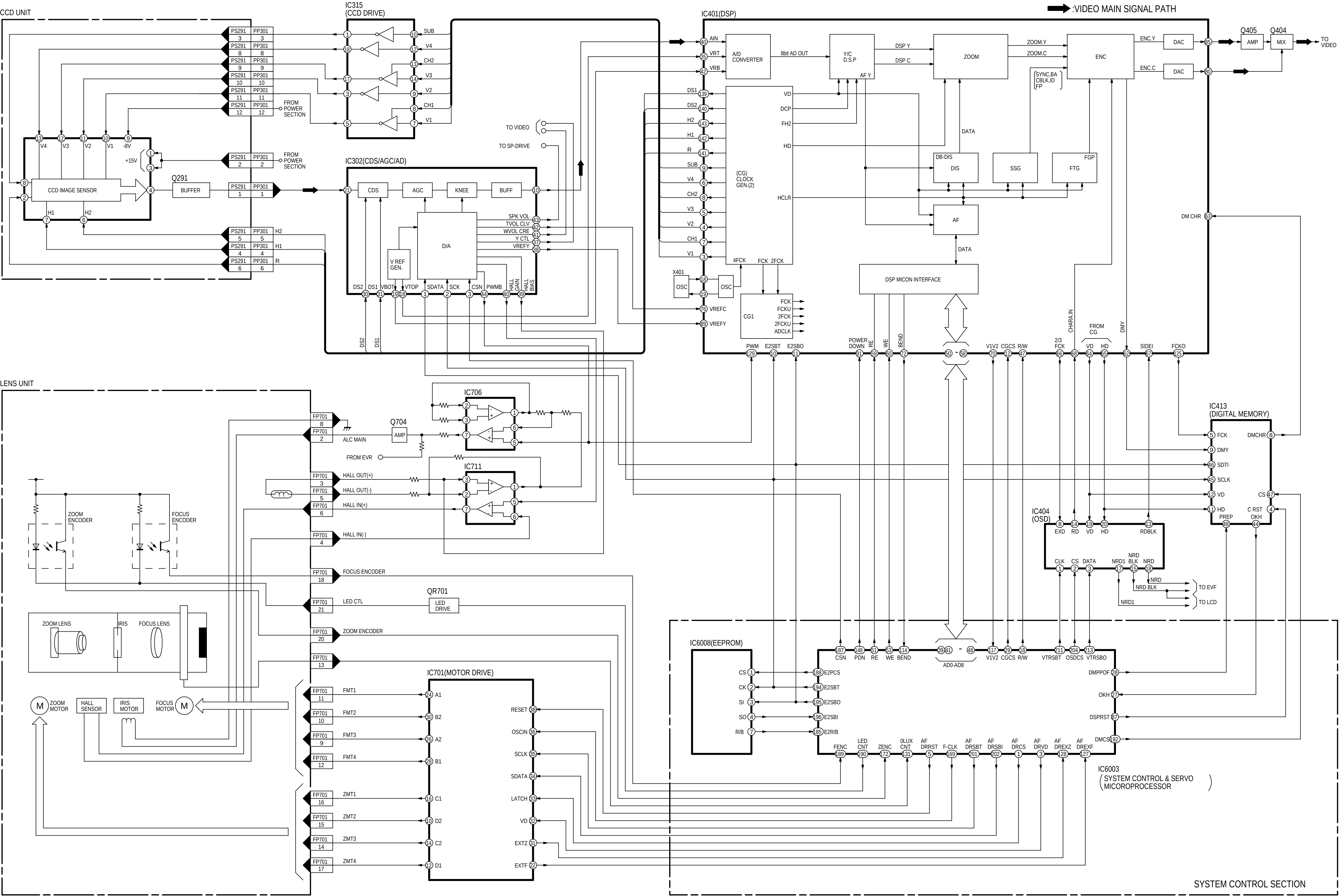
9
10
11

:VIDEO MAIN SIGNAL PATH

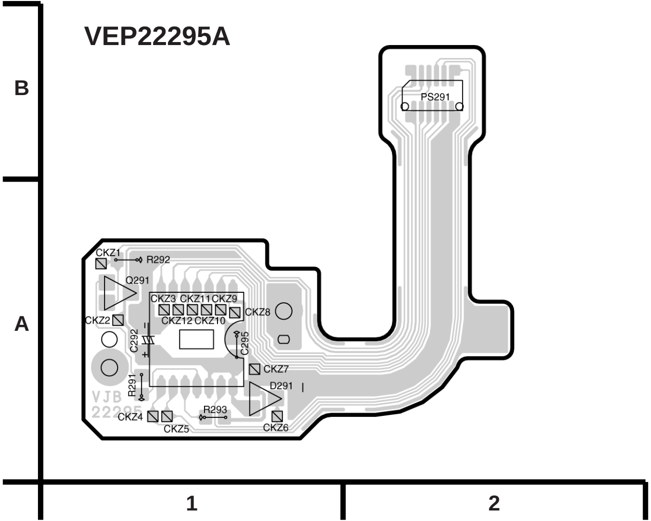

TO CAMERA1/ Page:27
REG 3V 9
V REF Ⓛ 22
PWM(B) 16
V REF Ⓗ 21
AD Y IN 8
E2 SBT 15
E2 SBO 14
SUB 1
CH2 2
CH1 3
V4 4
V3 5
V2 6
V1 7
P BLK 13
H2 25
H1 24
R PULSE 26
DS2 10
DS1 11
CG 3.3V 23
V REF Y 17
TVOL CLV 31
FCK 12
IC401
F712524CPBW
(DSP)
IC405
TC7SH04FU
LB404 VLP0175
LB402 VLP0175
LB403 VLP0175
R414 0
L401 10u
C414 1000P
C423 0.01
C422 0.01
CL401
CL402
C424 0.01
R420 2200
C431 0.01
C425 12P
L407 2.2u
C420 1000P
X402 VSX1100
R415 470
R421 1M
C432 15P
R424 120K
R477 47K
R425 68K
R426 22K
C418 10V2.2
CL413 CL412 CL411 CL410 CL409 CL408 CL406 CL405 CL404
VDD GND 2FCK TA7 TA6 TA5 TA4 TA3 TA2 TA1 TA0 ENCRST RANTST TEST4 TEST3 TEST2 VDD XO XI GND TEST1 510/590 GNDCG VDDCG CSCG SDTCG SCLKCG SUB CH2 CH1 V4 V3 V2 V1 CPOB PBLK
VDDAD VRT VCCAD AIN VSSAD VRB GNDAD GND VDD HD R/W ALE REF25 DB8 DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0 RD WR AFMCK DMY DMCHR OSDVD OSDHD FCK23 SIDEI CHRAI HSW V1V2 VD BEND
R W
ALE
AD8 AD7 AD6 AD5 AD4 AD3 AD2 AD1 AD0
RE
WE
V1V2
BEND
R434 100
R403 1K
R404 1K
R440 10K
QR405
RN1104FTPH3
(SWITCHING)
GNDCG H2 H1 R DS2 DS1 VDDS GNDCG GND VDD TB7 TB6 TB5 TB4 TB3/BLK PWM OE RE RSTR FCKO FMYO0 FMYO1 FMYO2 FMYO3 FMYO4 FMYO5 FMYO6 FMYO7 FMCO0 FMCO1 FMCO2 FMCO3 FMCI3 FMCI2 FMCI1 FMCI0
H2
H1
R PULSE
DS2
DS1
C430 0.01
C416 6.3V10
C413 150P
R458 470
R470 1K
R480 2200
R481 4700
R482 10K
R417 2700
R412 4700
CL407
R433 150
R431 0
C440 22P
R479 820
C403 33P
L403 39u
TO VIDEO/ Page:32
V REF Ⓛ 10
V REF Ⓗ 9
4.43MHz 14
SYS VD 8
VTR SYNC 15
GND VDD SCAN1 VREFC BIASC VCCDAC VSSDAC AOUTC IREFC VDDDA GNDDA IREFY AOUTY VSSDAY VCCDAY BIASY VREFY SCAN2 PBH CMPSH POR OSDMODE PBSYNCI IE WE RSTW FMYI0 FMYI1 FMYI2 FMYI3 FMYI4 FMYI5 FMYI6 FMYI7 VDD GND
C402 6.3V10
C401 0.01
C408 0.01
C405 1
R408 47K
R409 12K
C438 0.01
C404 1
C433 0.01
CL403
R423 1K
C415 0.01
R459 3300
R476 10K
R447 10K
TO VIDEO/ Page:32
VTR 4.8V 11
CAM Y/C IN 12
L DATA 13
R416 10K
C439 0.01
R418 1500
R419 910
R422 820
R430 4700
C434 10V2.2
R428 3900
Q404
2SA1774HRT4L
(MIX)
L408 22u
R427 620
C436 22P
C437 47P
Q405
HN1A01FUYR
(AMP)
(U3) (U6) (U1) (U2) (U5) (U3) (U6) (U4)
A B C D E F G H I J K L M N O P Q R S T U V
12 13 14 15 16 17 18 19 20 21 22

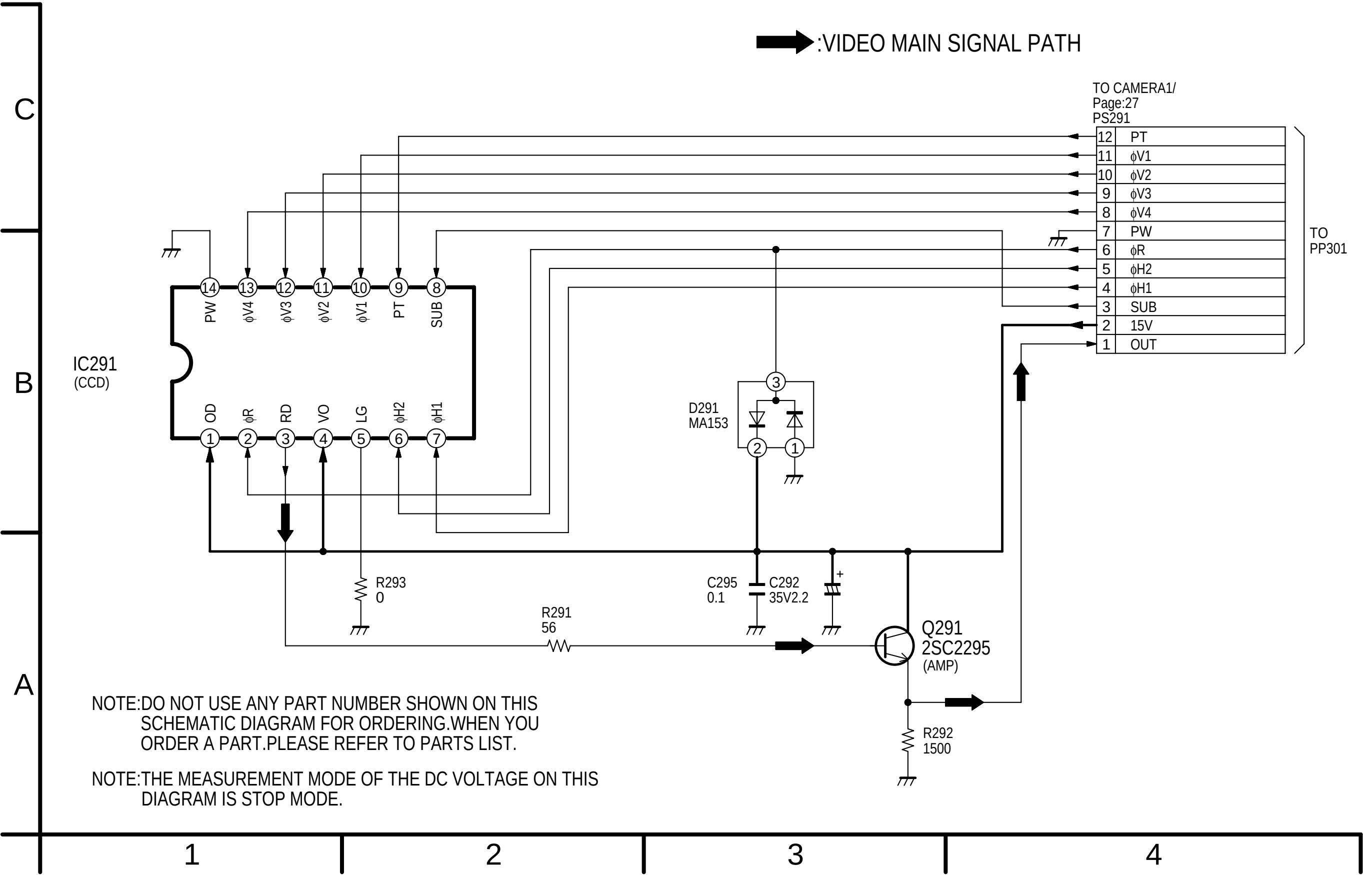
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.


:VIDEO MAIN SIGNAL PATH
CCD UNIT
CCD IMAGE SENSOR
V4
V3
V2
V1
-8V
+15V
H1
H2
Q291
BUFFER
PS291
PP301
FROM POWER SECTION
IC315
(CCD DRIVE)
SUB
V4
CH2
V3
V2
CH1
V1
IC302(CDS/AGC/AD)
CDS
AGC
KNEE
BUFF
D/A
V REF GEN.
SPK VOL
TVOL CLV
WVOL CRE
Y CTL
VREFY
DS2
DS1
VBOT
VTOP
SDATA
SCK
CSN
PWMB
HALL GAIN
HALL BIAS
TO VIDEO
TO SP-DRIVE
IC401(DSP)
AIN
VRT
VRB
A/D CONVERTER
8bit AD OUT
Y/C D.S.P
AF Y
DSP Y
DSP C
ZOOM
ZOOM.Y
ZOOM.C
ENC
ENC.Y
ENC.C
DAC
SYNC,BA CBLK,ID FP
DATA
DB-DIS
DIS
SSG
FTG
FGP
AF
(CG) CLOCK GEN.(2)
VD
DCP
FH2
HD
HCLR
4FCK
FCK
2FCK
X401
OSC
CG1
FCKU
2FCKU
ADCLK
VREFC
VREFY
DSP MICON INTERFACE
R
H1
H2
DM CHR
PWM
E2SBT
E2SBO
POWER DOWN
RE
WE
BEND
V1V2
CGCS
R/W
2/3 FCK
CHARA.IN
FROM CG
DMY
SIDEI
FCKO
Q405
AMP
Q404
MIX
TO VIDEO
IC413
(DIGITAL MEMORY)
SDTI
SCLK
DMCHR
CS
C RST
PREP
OKH
IC404
(OSD)
EXD
RD
RDBLK
CLK
NRD1
NRD BLK
NRD
TO EVF
TO LCD
LENS UNIT
FP701
ALC MAIN
FROM EVR
Q704
IC706
IC711
HALL OUT(+)
HALL OUT(-)
HALL IN(+)
HALL IN(-)
ZOOM ENCODER
FOCUS ENCODER
LED CTL
QR701
LED DRIVE
ZOOM LENS
IRIS
FOCUS LENS
ZOOM MOTOR
HALL SENSOR
IRIS MOTOR
FOCUS MOTOR
M
FMT1
FMT2
FMT3
FMT4
ZMT1
ZMT2
ZMT3
ZMT4
IC701(MOTOR DRIVE)
A1
B2
A2
B1
C1
D2
C2
D1
RESET
OSCIN
SCLK
SDATA
LATCH
VD
EXTZ
EXTF
IC6008(EEPROM)
CS
CK
SI
SO
R/B
E2PCS
E2SBT
E2SBO
E2SBI
E2R/B
CSN
PDN
AD0-AD8
VTRSBT
OSDCS
VTRSBO
DMPPOF
OKH
DSPRST
DMCS
FENC
LED CNT
ZENC
0LUX CNT
AF DRRST
F-CLK
AF DRSBT
AF DRSBI
AF DRCS
AF DRVD
AF DREXZ
AF DREXF
IC6003
(SYSTEM CONTROL & SERVO MICOROPROCESSOR)
SYSTEM CONTROL SECTION

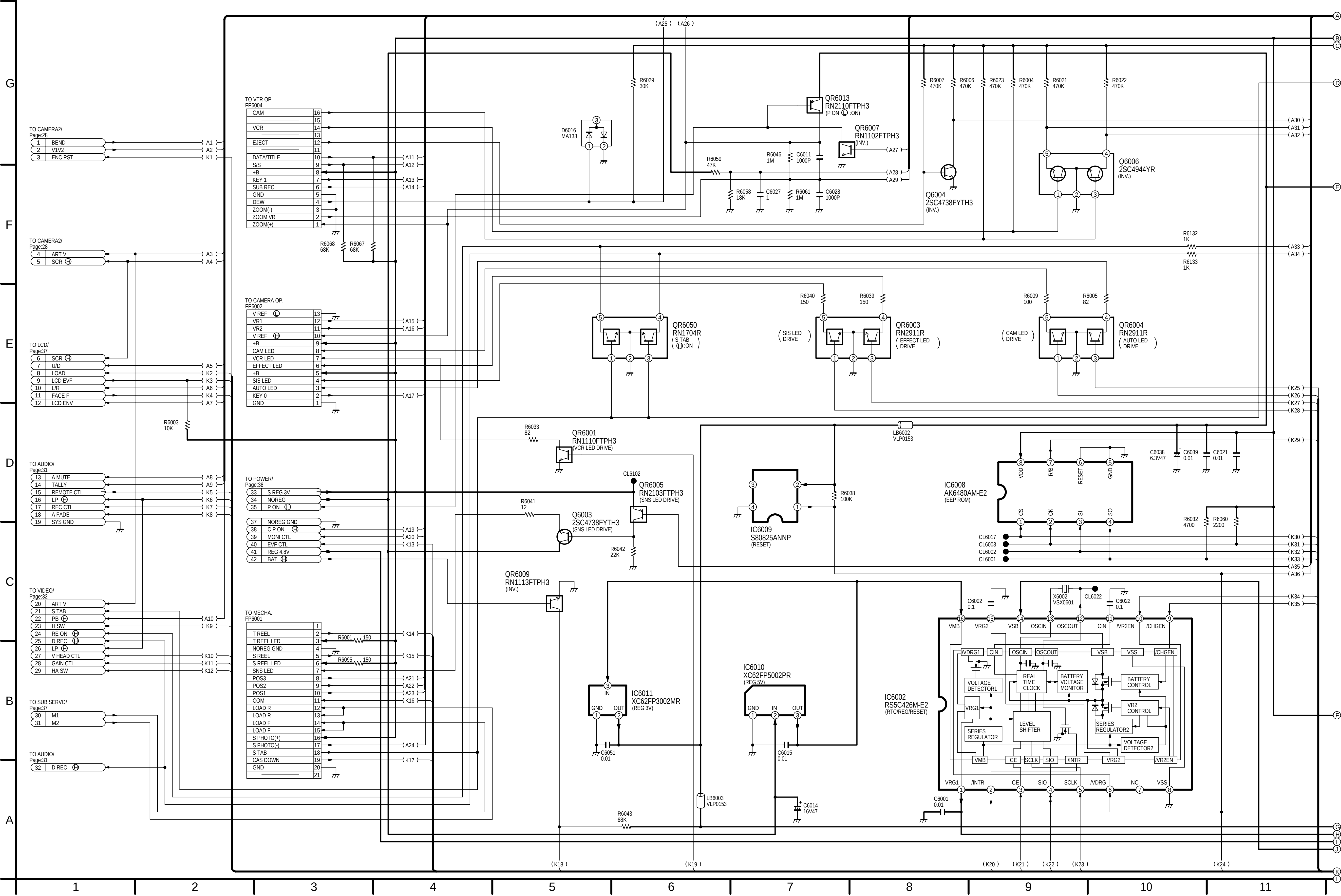
VEP22295A

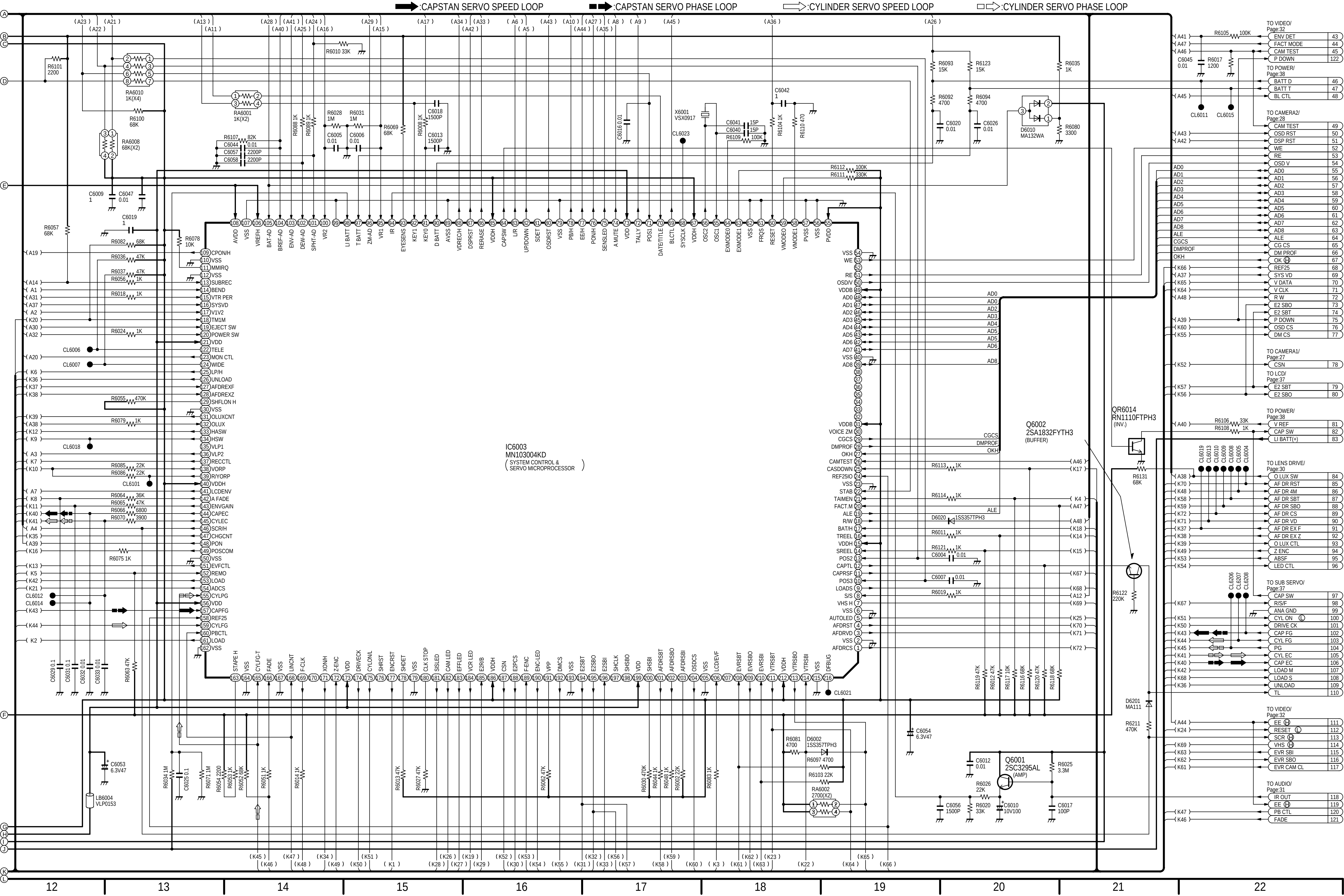

B
A
PS291
CKZ1
R292
Q291
CKZ3
CKZ11
CKZ9
CKZ8
CKZ2
CKZ12
CKZ10
C292
C295
CKZ7
D291
R291
VJB
22295
CKZ4
CKZ5
R293
CKZ6
1
2


:VIDEO MAIN SIGNAL PATH
TO CAMERA1/
Page:27
PS291
12 PT
11 ϕV1
10 ϕV2
9 ϕV3
8 ϕV4
7 PW
6 ϕR
5 ϕH2
4 ϕH1
3 SUB
2 15V
1 OUT
TO
PP301
IC291
(CCD)
14 PW
13 ϕV4
12 ϕV3
11 ϕV2
10 ϕV1
9 PT
8 SUB
1 OD
2 ϕR
3 RD
4 VO
5 LG
6 ϕH2
7 ϕH1
D291
MA153
R293
0
R291
56
C295
0.1
C292
35V2.2
Q291
2SC2295
(AMP)
R292
1500
A
B
C
1
2
3
4

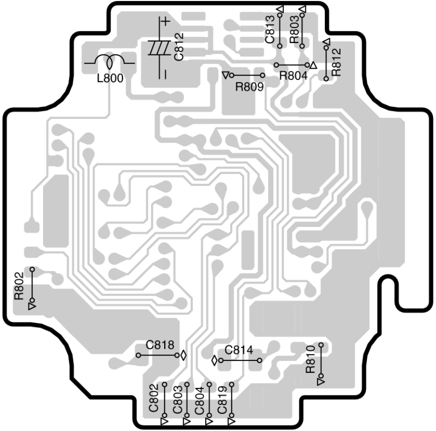
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART.PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

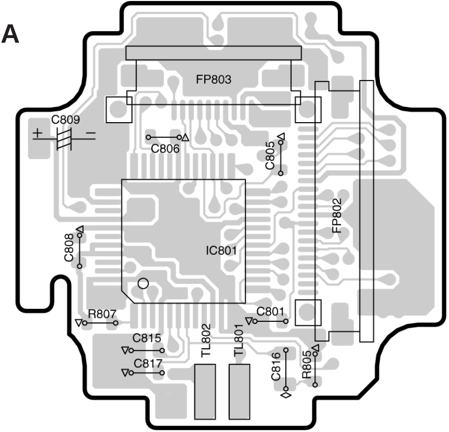

TO CAMERA2/
Page:28
1 BEND
2 V1V2
3 ENC RST
A1
A2
K1
TO CAMERA2/
Page:28
4 ART V
5 SCR Ⓗ
A3
A4
TO LCD/
Page:37
6 SCR Ⓗ
7 U/D
8 LOAD
9 LCD EVF
10 L/R
11 FACE F
12 LCD ENV
A5
K2
K3
A6
K4
A7
R6003
10K
TO AUDIO/
Page:31
13 A MUTE
14 TALLY
15 REMOTE CTL
16 LP Ⓗ
17 REC CTL
18 A FADE
19 SYS GND
A8
A9
K5
K6
K7
K8
TO VIDEO/
Page:32
20 ART V
21 S TAB
22 PB Ⓗ
23 H SW
24 RE ON Ⓗ
25 D REC Ⓗ
26 LP Ⓗ
27 V HEAD CTL
28 GAIN CTL
29 HA SW
A10
K9
K10
K11
K12
TO SUB SERVO/
Page:37
30 M1
31 M2
TO AUDIO/
Page:31
32 D REC Ⓗ
TO VTR OP.
FP6004
CAM 16
15
VCR 14
13
EJECT 12
11
DATA/TITLE 10
S/S 9
+B 8
KEY 1 7
SUB REC 6
GND 5
DEW 4
ZOOM(-) 3
ZOOM VR 2
ZOOM(+) 1
A11
A12
A13
A14
R6068
68K
R6067
68K
TO CAMERA OP.
FP6002
V REF Ⓛ 13
VR1 12
VR2 11
V REF Ⓗ 10
+B 9
CAM LED 8
VCR LED 7
EFFECT LED 6
+B 5
SIS LED 4
AUTO LED 3
KEY 0 2
GND 1
A15
A16
A17
TO POWER/
Page:38
33 S REG 3V
34 NOREG
35 P ON Ⓛ
37 NOREG GND
38 C P ON Ⓗ
39 MONI CTL
40 EVF CTL
41 REG 4.8V
42 BAT Ⓗ
A19
A20
K13
TO MECHA.
FP6001
1
T REEL 2
T REEL LED 3
NOREG GND 4
S REEL 5
S REEL LED 6
SNS LED 7
POS3 8
POS2 9
POS1 10
COM 11
LOAD R 12
LOAD R 13
LOAD F 14
LOAD F 15
S PHOTO(+) 16
S PHOTO(-) 17
S TAB 18
CAS DOWN 19
GND 20
21
R6001 150
R6095 150
K14
K15
A21
A22
A23
K16
A24
K17
A25
A26
D6016
MA133
R6029
30K
R6059
47K
R6058
18K
C6027
1
R6046
1M
C6011
1000P
R6061
1M
C6028
1000P
QR6013
RN2110FTPH3
(P ON Ⓛ :ON)
QR6007
RN1102FTPH3
(INV.)
A27
A28
A29
Q6004
2SC4738FYTH3
(INV.)
R6007
470K
R6006
470K
R6023
470K
R6004
470K
R6021
470K
R6022
470K
A30
A31
A32
Q6006
2SC4944YR
(INV.)
R6132
1K
R6133
1K
A33
A34
QR6050
RN1704R
(S TAB Ⓗ :ON)
R6040
150
R6039
150
QR6003
RN2911R
(SIS LED DRIVE)
(EFFECT LED DRIVE)
R6009
100
R6005
82
QR6004
RN2911R
(CAM LED DRIVE)
(AUTO LED DRIVE)
K25
K26
K27
K28
R6033
82
QR6001
RN1110FTPH3
(VCR LED DRIVE)
LB6002
VLP0153
K29
C6038
6.3V47
C6039
0.01
C6021
0.01
CL6102
QR6005
RN2103FTPH3
(SNS LED DRIVE)
R6041
12
Q6003
2SC4738FYTH3
(SNS LED DRIVE)
R6042
22K
IC6009
S80825ANNP
(RESET)
R6038
100K
IC6008
AK6480AM-E2
(EEP ROM)
VDD
R/B
RESET
GND
CS
CK
SI
SO
R6032
4700
R6060
2200
CL6017
CL6003
CL6002
CL6001
K30
K31
K32
K33
A35
A36
QR6009
RN1113FTPH3
(INV.)
IC6011
XC62FP3002MR
(REG 3V)
IN
GND
OUT
C6051
0.01
IC6010
XC62FP5002PR
(REG 5V)
GND
IN
OUT
C6015
0.01
C6014
16V47
LB6003
VLP0153
R6043
68K
C6002
0.1
X6002
VSX0601
CL6022
C6022
0.1
K34
K35
IC6002
RS5C426M-E2
(RTC/REG/RESET)
VMB
VRG2
VSB
OSCIN
OSCOUT
CIN
/VR2EN
/CHGEN
/VDRG1
VOLTAGE DETECTOR1
VRG1
SERIES REGULATOR
REAL TIME CLOCK
BATTERY VOLTAGE MONITOR
LEVEL SHIFTER
BATTERY CONTROL
VR2 CONTROL
SERIES REGULATOR2
VOLTAGE DETECTOR2
VSS
CE
SCLK
SIO
/INTR
VRG1
/INTR
CE
SIO
SCLK
/VDRG
NC
VSS
C6001
0.01
K18
K19
K20
K21
K22
K23
K24
A
B
C
D
E
F
G
H
I
J
K
L
1
2
3
4
5
6
7
8
9
10
11


:CAPSTAN SERVO SPEED LOOP
:CAPSTAN SERVO PHASE LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP
IC6003
MN103004KD
(SYSTEM CONTROL & SERVO MICROPROCESSOR)
Q6002
2SA1832FYTH3
(BUFFER)
QR6014
RN1110FTPH3
(INV.)
Q6001
2SC3295AL
(AMP)
X6001
VSX0917
D6010
MA132WA
D6020
1SS357TPH3
D6002
1SS357TPH3
D6201
MA111
RA6010
1K(X4)
RA6001
1K(X2)
RA6008
68K(X2)
RA6002
2700(X2)
LB6004
VLP0153
TO VIDEO/
Page:32
ENV DET 43
FACT MODE 44
CAM TEST 45
P DOWN 122
TO POWER/
Page:38
BATT D 46
BATT T 47
BL CTL 48
TO CAMERA2/
Page:28
CAM TEST 49
OSD RST 50
DSP RST 51
WE 52
RE 53
OSD V 54
AD0 55
AD1 56
AD2 57
AD3 58
AD4 59
AD5 60
AD6 61
AD7 62
AD8 63
ALE 64
CG CS 65
DM PROF 66
OK Ⓗ 67
REF25 68
SYS VD 69
V DATA 70
V CLK 71
R W 72
E2 SBO 73
E2 SBT 74
P DOWN 75
OSD CS 76
DM CS 77
TO CAMERA1/
Page:27
CSN 78
TO LCD/
Page:37
E2 SBT 79
E2 SBO 80
TO POWER/
Page:38
V REF 81
CAP SW 82
LI BATT(+) 83
TO LENS DRIVE/
Page:30
O LUX SW 84
AF DR RST 85
AF DR 4M 86
AF DR SBT 87
AF DR SBO 88
AF DR CS 89
AF DR VD 90
AF DR EX F 91
AF DR EX Z 92
O LUX CTL 93
Z ENC 94
ABSF 95
LED CTL 96
TO SUB SERVO/
Page:37
CAP SW 97
R/S/F 98
ANA GND 99
CYL ON Ⓛ 100
DRIVE CK 101
CAP FG 102
CYL FG 103
PG 104
CYL EC 105
CAP EC 106
LOAD M 107
LOAD S 108
UNLOAD 109
TL 110
TO VIDEO/
Page:32
EE Ⓗ 111
RESET Ⓛ 112
SCR Ⓗ 113
VHS Ⓗ 114
EVR SBI 115
EVR SBO 116
EVR CAM CL 117
TO AUDIO/
Page:31
IR OUT 118
EE Ⓗ 119
PB CTL 120
FADE 121
12
13
14
15
16
17
18
19
20
21
22

VEP28271A


L800
C812
C813
R803
R812
R804
R809
R802
C818
C814
R810
C802
C803
C804
C819

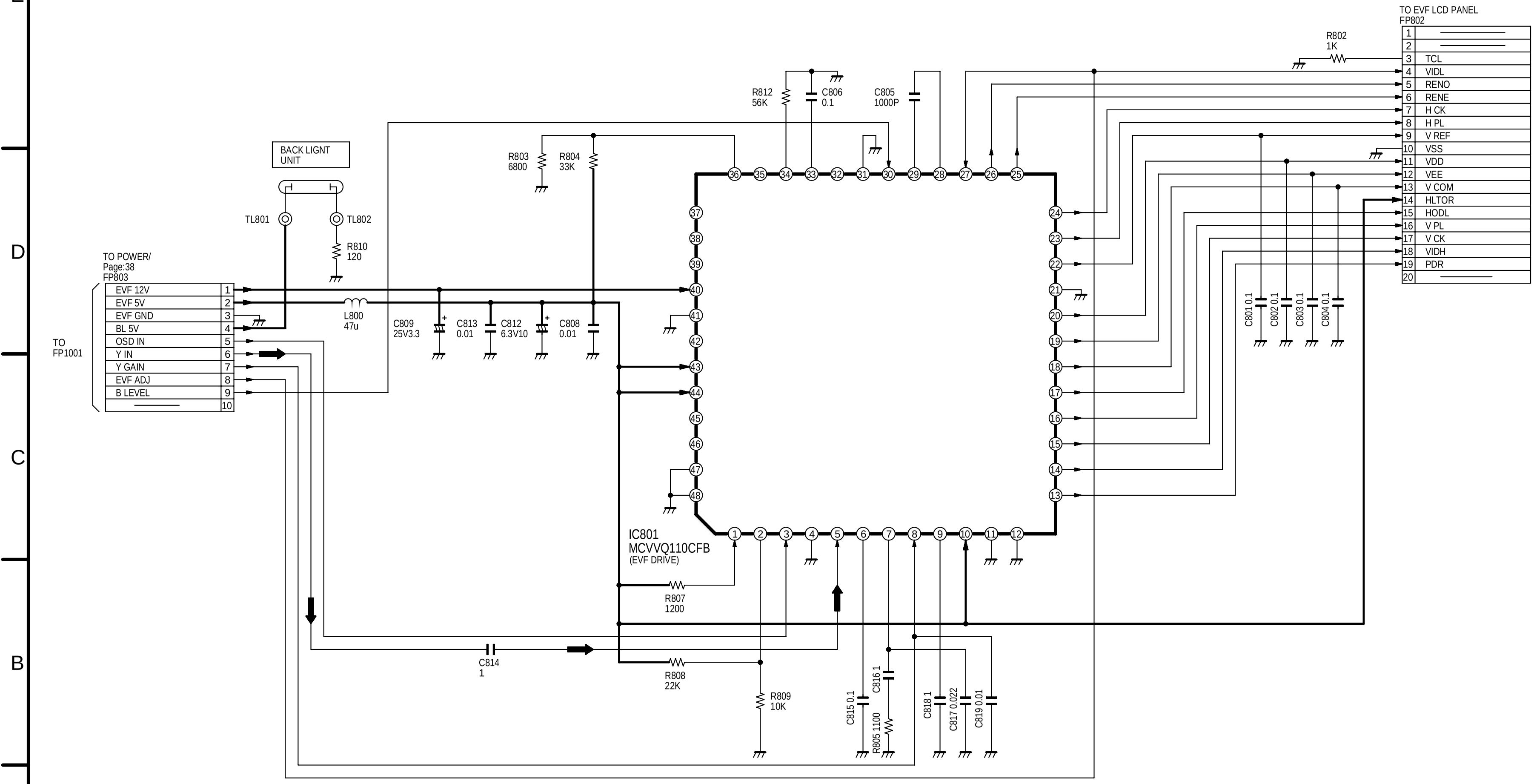
(COMPONENT SIDE)


FP803
C809
C806
C805
FP802
IC801
C808
R807
C801
C815
C817
TL802
TL801
C816
R805

(FOIL SIDE)

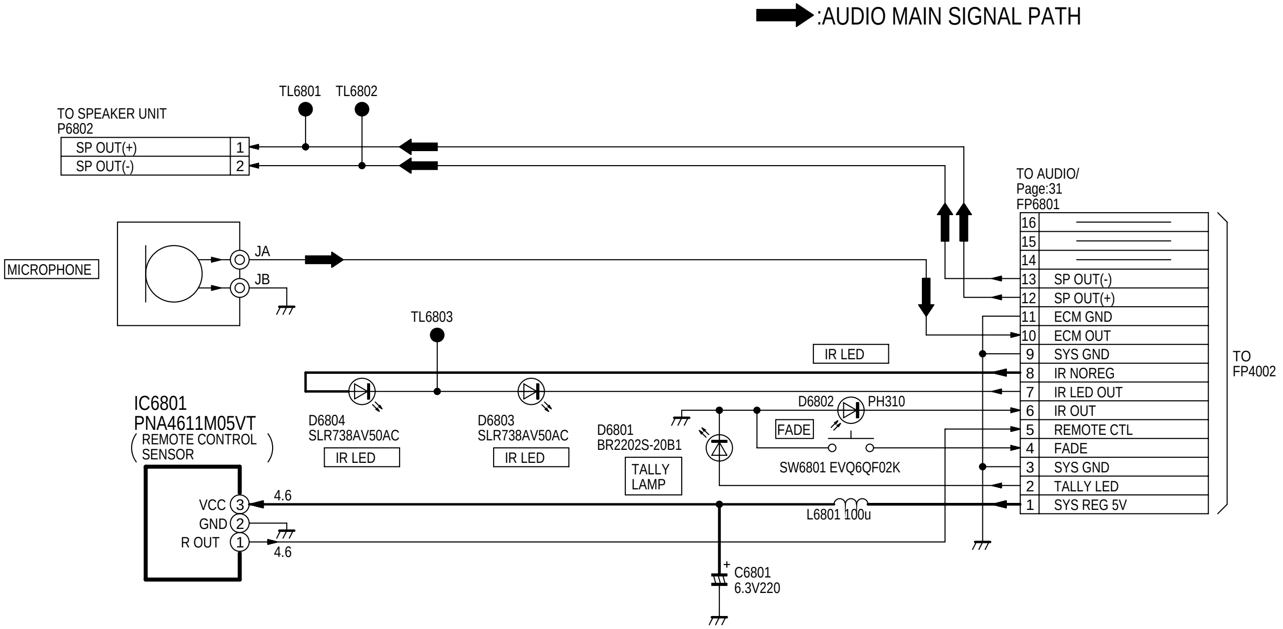
B
A
1
2
3
4

:VIDEO MAIN SIGNAL PATH


TO EVF LCD PANEL
FP802
1
2
3 TCL
4 VIDL
5 RENO
6 RENE
7 H CK
8 H PL
9 V REF
10 VSS
11 VDD
12 VEE
13 V COM
14 HLTOR
15 HODL
16 V PL
17 V CK
18 VIDH
19 PDR
20
R802
1K
R812
56K
C806
0.1
C805
1000P
R803
6800
R804
33K
BACK LIGNT
UNIT
TL801
TL802
R810
120
TO POWER/
Page:38
FP803
EVF 12V 1
EVF 5V 2
EVF GND 3
BL 5V 4
OSD IN 5
Y IN 6
Y GAIN 7
EVF ADJ 8
B LEVEL 9
10
TO
FP1001
L800
47u
C809
25V3.3
C813
0.01
C812
6.3V10
C808
0.01
C801 0.1
C802 0.1
C803 0.1
C804 0.1
IC801
MCVVQ110CFB
(EVF DRIVE)
R807
1200
C814
1
R808
22K
R809
10K
C815 0.1
C816 1
R805 1100
C818 1
C817 0.022
C819 0.01
E
D
C
B
A
1
2
3
4
5
6
7

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS
SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU
ORDER A PART,PLEASE REFER TO PARTS LIST.

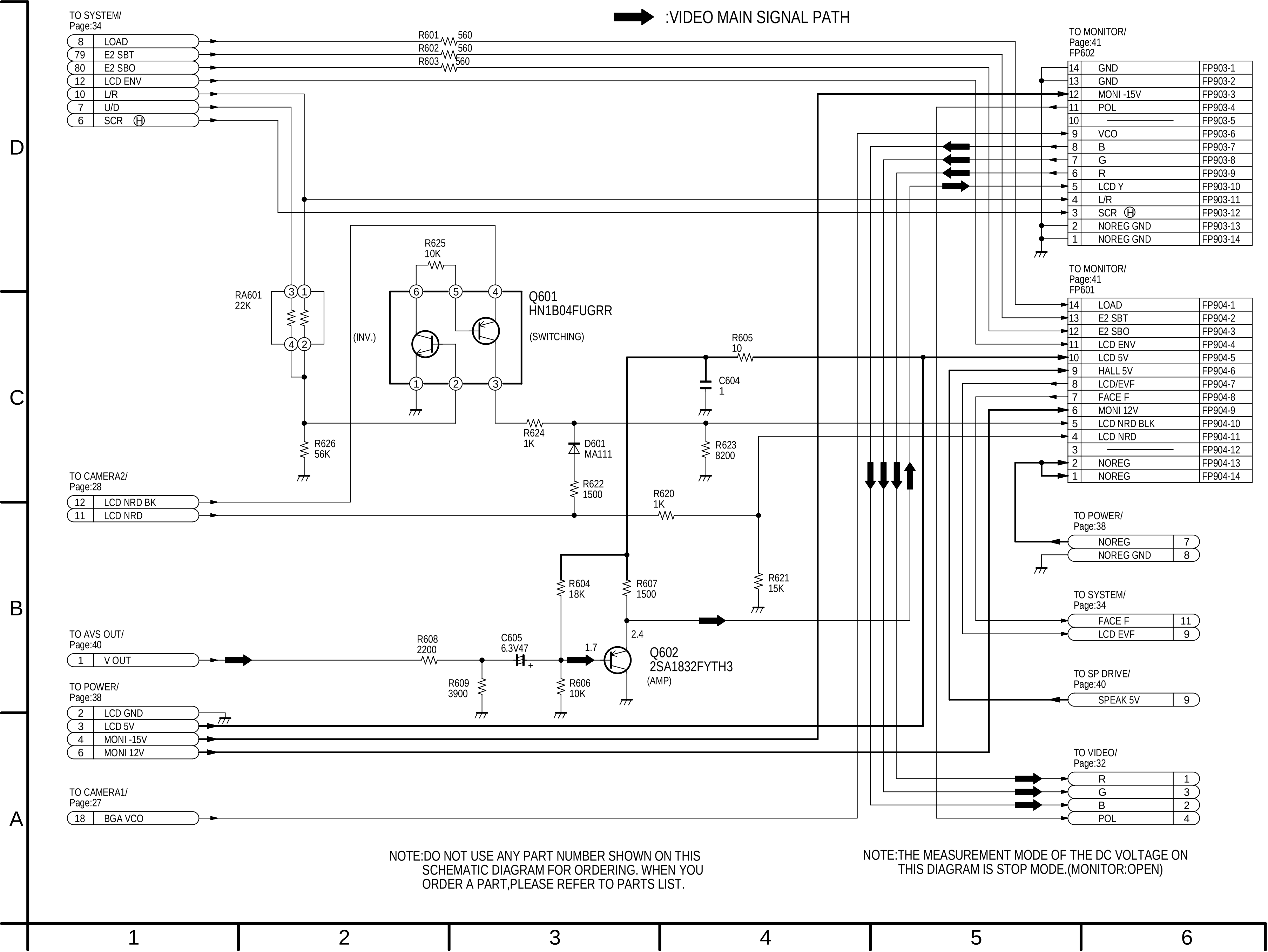
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGREM IS STOP MODE.(EVF:ON)


:AUDIO MAIN SIGNAL PATH
TL6801
TL6802
TO SPEAKER UNIT
P6802
SP OUT(+) 1
SP OUT(-) 2
MICROPHONE
JA
JB
TL6803
IR LED
TO AUDIO/
Page:31
FP6801
16
15
14
13 SP OUT(-)
12 SP OUT(+)
11 ECM GND
10 ECM OUT
9 SYS GND
8 IR NOREG
7 IR LED OUT
6 IR OUT
5 REMOTE CTL
4 FADE
3 SYS GND
2 TALLY LED
1 SYS REG 5V
TO
FP4002
IC6801
PNA4611M05VT
(REMOTE CONTROL SENSOR)
VCC 3
GND 2
R OUT 1
4.6
4.6
D6804
SLR738AV50AC
IR LED
D6803
SLR738AV50AC
IR LED
D6801
BR2202S-20B1
TALLY
LAMP
D6802
PH310
FADE
SW6801 EVQ6QF02K
L6801 100u
+
C6801
6.3V220
C
B
A
1
2
3
4

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER APART,PLEASE REFER TO PARS LIST.

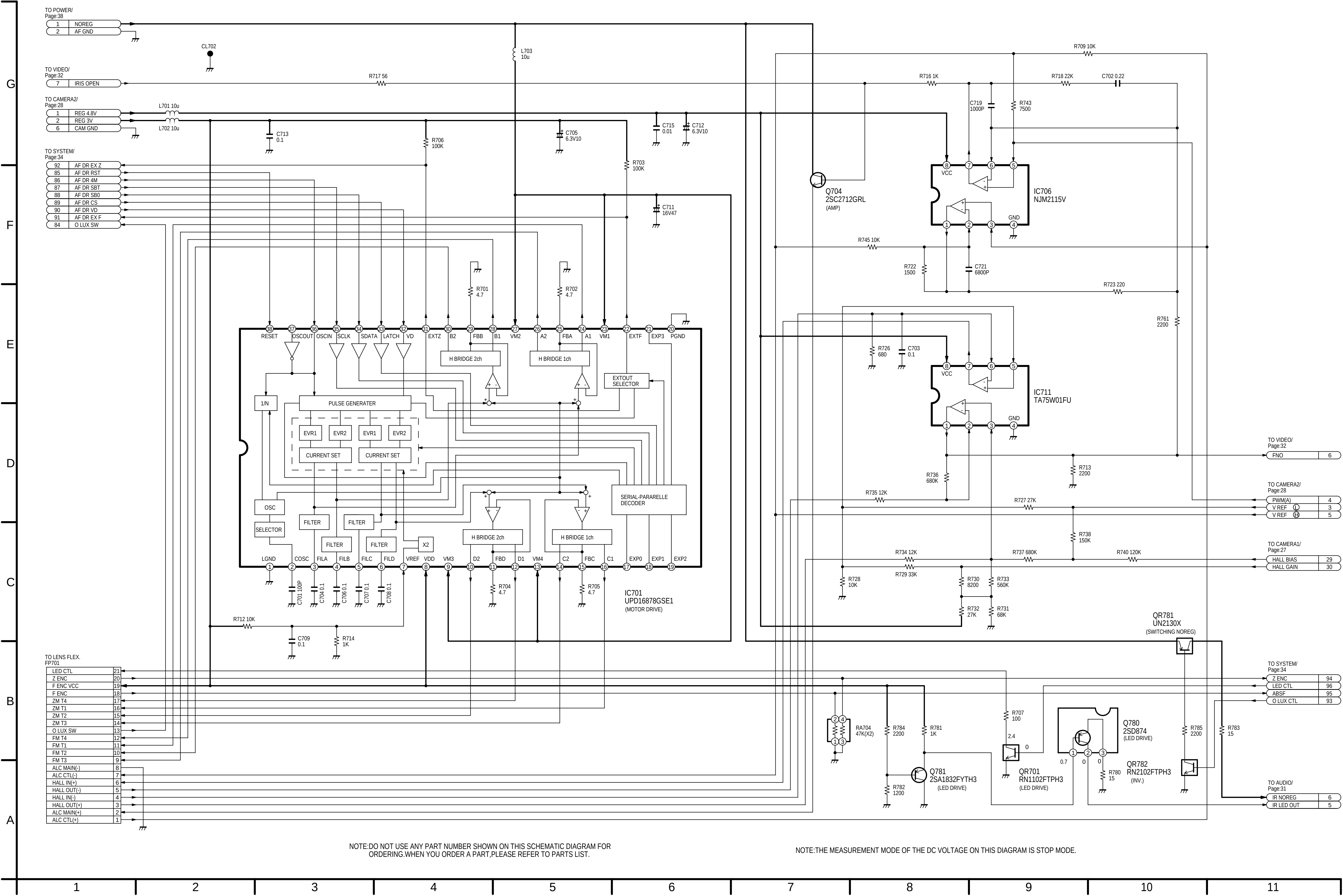
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.


:VIDEO MAIN SIGNAL PATH
TO SYSTEM/ Page:34
8 LOAD
79 E2 SBT
80 E2 SBO
12 LCD ENV
10 L/R
7 U/D
6 SCR Ⓗ
R601 560
R602 560
R603 560
RA601 22K
R625 10K
Q601 HN1B04FUGRR
(SWITCHING)
(INV.)
R626 56K
R624 1K
D601 MA111
R622 1500
R605 10
C604 1
R623 8200
R620 1K
R621 15K
TO CAMERA2/ Page:28
12 LCD NRD BK
11 LCD NRD
R604 18K
R607 1500
2.4
1.7
Q602 2SA1832FYTH3
(AMP)
R608 2200
C605 6.3V47
R609 3900
R606 10K
TO AVS OUT/ Page:40
1 V OUT
TO POWER/ Page:38
2 LCD GND
3 LCD 5V
4 MONI -15V
6 MONI 12V
TO CAMERA1/ Page:27
18 BGA VCO
TO MONITOR/ Page:41 FP602
14 GND FP903-1
13 GND FP903-2
12 MONI -15V FP903-3
11 POL FP903-4
10 FP903-5
9 VCO FP903-6
8 B FP903-7
7 G FP903-8
6 R FP903-9
5 LCD Y FP903-10
4 L/R FP903-11
3 SCR Ⓗ FP903-12
2 NOREG GND FP903-13
1 NOREG GND FP903-14
TO MONITOR/ Page:41 FP601
14 LOAD FP904-1
13 E2 SBT FP904-2
12 E2 SBO FP904-3
11 LCD ENV FP904-4
10 LCD 5V FP904-5
9 HALL 5V FP904-6
8 LCD/EVF FP904-7
7 FACE F FP904-8
6 MONI 12V FP904-9
5 LCD NRD BLK FP904-10
4 LCD NRD FP904-11
3 FP904-12
2 NOREG FP904-13
1 NOREG FP904-14
TO POWER/ Page:38
NOREG 7
NOREG GND 8
TO SYSTEM/ Page:34
FACE F 11
LCD EVF 9
TO SP DRIVE/ Page:40
SPEAK 5V 9
TO VIDEO/ Page:32
R 1
G 3
B 2
POL 4
D
C
B
A
1
2
3
4
5
6

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(MONITOR:OPEN)


TO POWER/
Page:38
1 NOREG
2 AF GND
CL702
TO VIDEO/
Page:32
7 IRIS OPEN
TO CAMERA2/
Page:28
1 REG 4.8V
2 REG 3V
6 CAM GND
L701 10u
L702 10u
TO SYSTEM/
Page:34
92 AF DR EX Z
85 AF DR RST
86 AF DR 4M
87 AF DR SBT
88 AF DR SB0
89 AF DR CS
90 AF DR VD
91 AF DR EX F
84 O LUX SW
L703 10u
R717 56
C713 0.1
R706 100K
C705 6.3V10
C715 0.01
C712 6.3V10
R703 100K
C711 16V47
R701 4.7
R702 4.7
RESET
OSCOUT
OSCIN
SCLK
SDATA
LATCH
VD
EXTZ
B2
FBB
B1
VM2
A2
FBA
A1
VM1
EXTF
EXP3
PGND
H BRIDGE 2ch
H BRIDGE 1ch
EXTOUT SELECTOR
1/N
PULSE GENERATER
EVR1
EVR2
CURRENT SET
SERIAL-PARARELLE DECODER
OSC
SELECTOR
FILTER
X2
LGND
COSC
FILA
FILB
FILC
FILD
VREF
VDD
VM3
D2
FBD
D1
VM4
C2
FBC
C1
EXP0
EXP1
EXP2
C701 100P
C704 0.1
C706 0.1
C707 0.1
C708 0.1
R704 4.7
R705 4.7
IC701
UPD16878GSE1
(MOTOR DRIVE)
R712 10K
C709 0.1
R714 1K
Q704
2SC2712GRL
(AMP)
R709 10K
R716 1K
R718 22K
C702 0.22
C719 1000P
R743 7500
VCC
GND
IC706
NJM2115V
R745 10K
R722 1500
C721 6800P
R723 220
R761 2200
R726 680
C703 0.1
IC711
TA75W01FU
TO VIDEO/
Page:32
FNO 6
R736 680K
R713 2200
R735 12K
R727 27K
TO CAMERA2/
Page:28
PWM(A) 4
V REF Ⓛ 3
V REF Ⓗ 5
R738 150K
R734 12K
R737 680K
R740 120K
TO CAMERA1/
Page:27
HALL BIAS 29
HALL GAIN 30
R728 10K
R729 33K
R730 8200
R733 560K
R732 27K
R731 68K
QR781
UN2130X
(SWITCHING NOREG)
TO LENS FLEX.
FP701
LED CTL 21
Z ENC 20
F ENC VCC 19
F ENC 18
ZM T4 17
ZM T1 16
ZM T2 15
ZM T3 14
O LUX SW 13
FM T4 12
FM T1 11
FM T2 10
FM T3 9
ALC MAIN(-) 8
ALC CTL(-) 7
HALL IN(+) 6
HALL OUT(-) 5
HALL IN(-) 4
HALL OUT(+) 3
ALC MAIN(+) 2
ALC CTL(+) 1
RA704 47K(X2)
R784 2200
R781 1K
Q781
2SA1832FYTH3
(LED DRIVE)
R782 1200
R707 100
2.4
0
QR701
RN1102FTPH3
(LED DRIVE)
Q780
2SD874
(LED DRIVE)
0.7
0
0
R780 15
QR782
RN2102FTPH3
(INV.)
R785 2200
R783 15
TO SYSTEM/
Page:34
Z ENC 94
LED CTL 96
ABSF 95
O LUX CTL 93
TO AUDIO/
Page:31
IR NOREG 6
IR LED OUT 5
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

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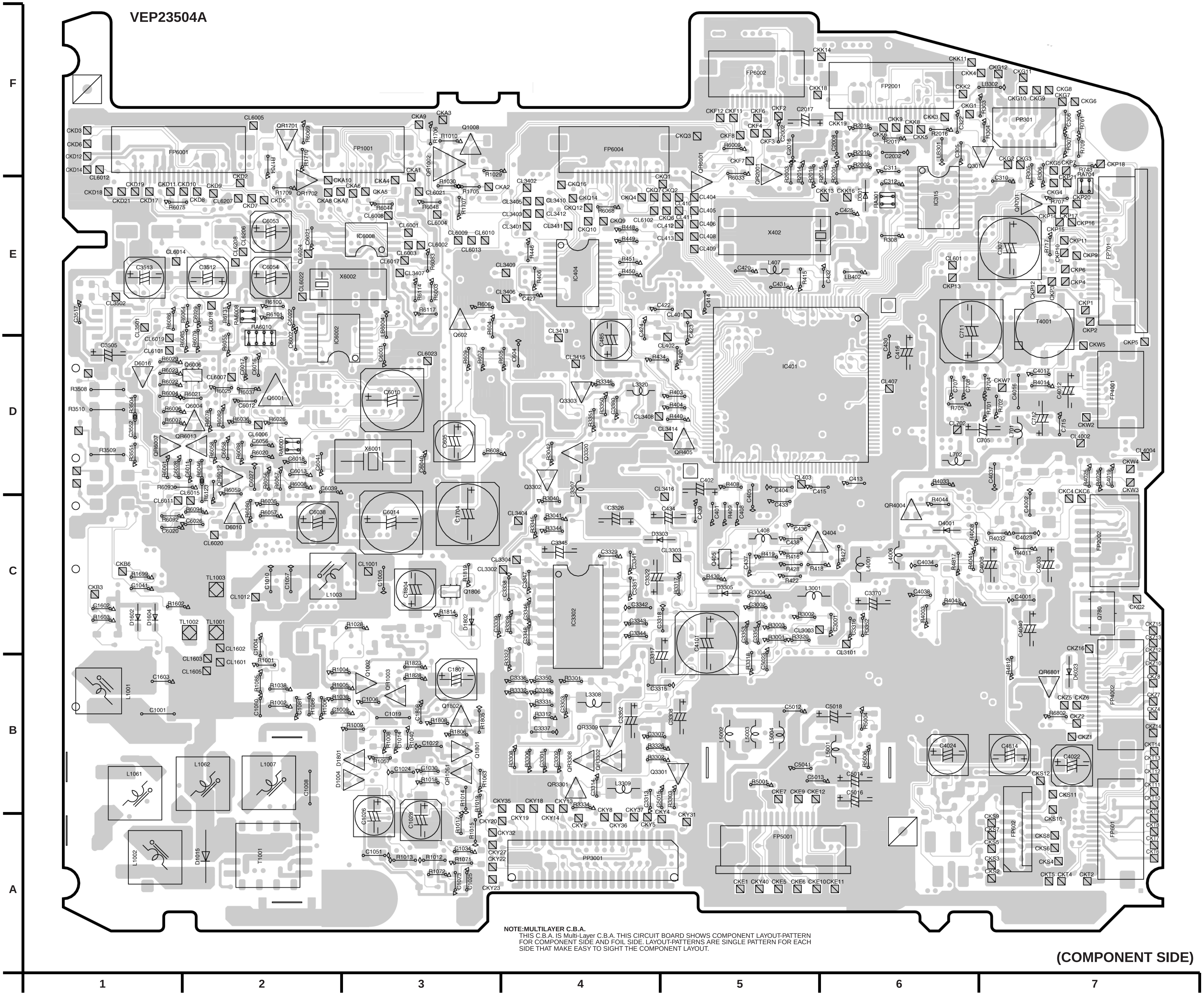
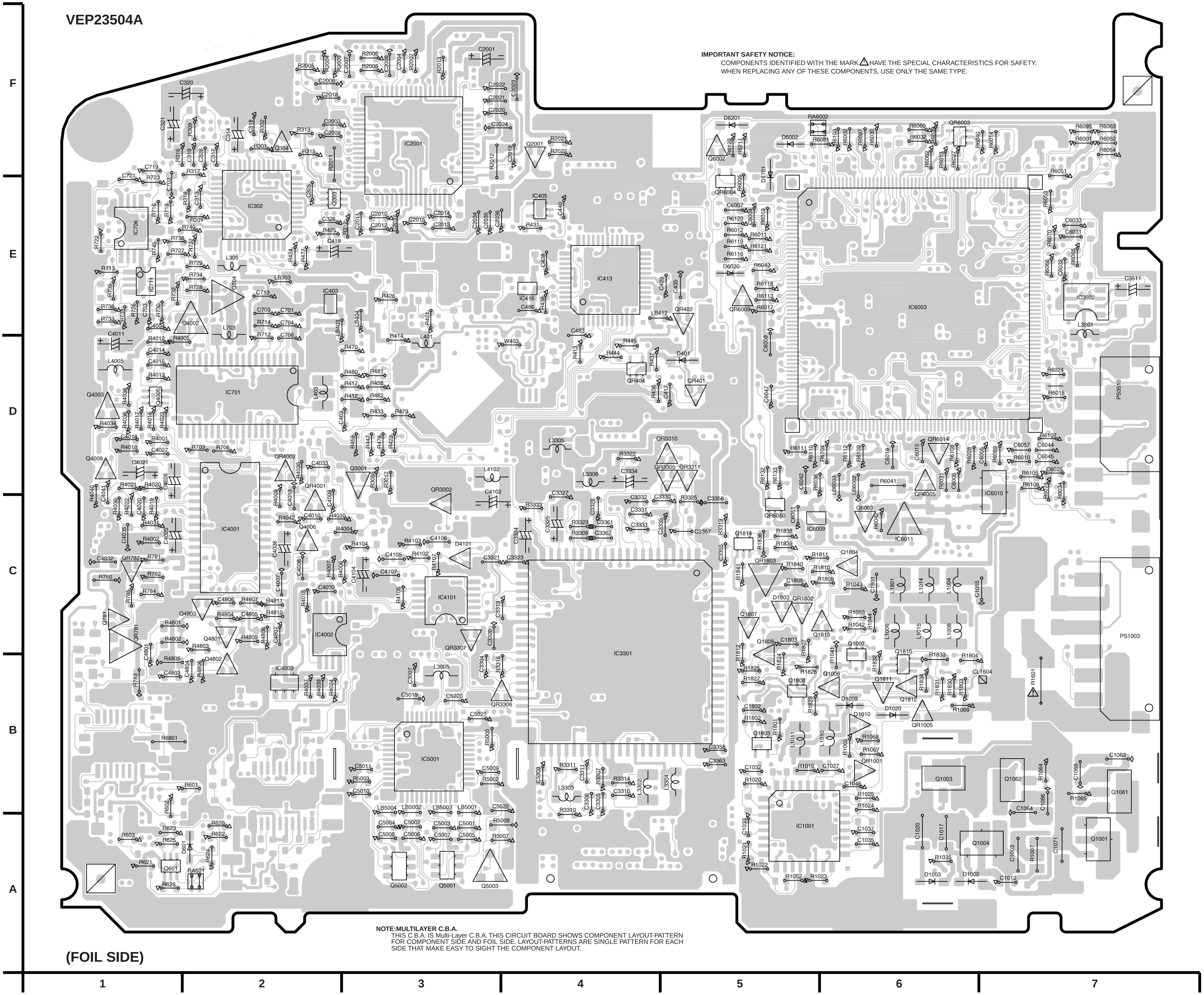

F
E
D
C
B
A
1
2
3
4
5
6
7
FP6001
FP1001
FP6004
FP6002
FP2001
PP301
IC6008
X6002
IC6002
X6001
IC404
X402
IC401
IC315
FP701
T4001
FP4001
IC3302
FP2002
FP4002
FP5001
FP602
FP601
PP3001
T1001
L1001
L1061
L1062
L1007
L1002
L1003
TL1003
TL1002
TL1001

NOTE:MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

(COMPONENT SIDE)

VEP23504A

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



F
E
D
C
B
A
1
2
3
4
5
6
7
IC2001
IC302
IC706
IC711
IC701
IC403
IC405
IC413
IC416
IC4001
IC4002
IC4003
IC4101
IC3301
IC5001
IC6003
IC3502
IC6009
IC6010
IC6011
IC1001
PS3510
PS1003
Q1003
Q1062
Q1061
Q1004
Q1001

NOTE:MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

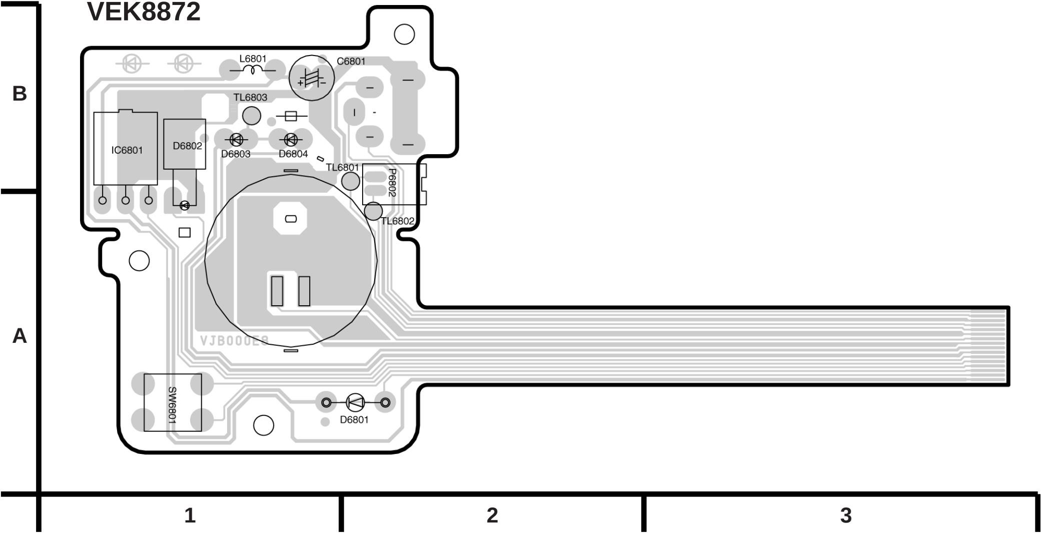
(FOIL SIDE)

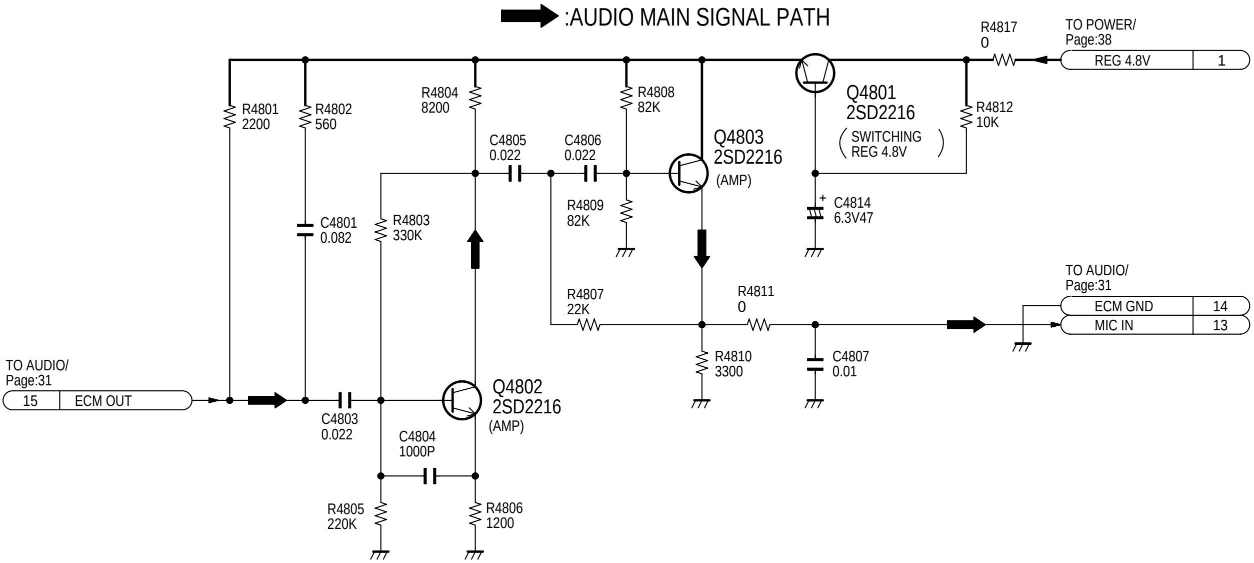
Camera/Main C.B.A.

Integrated Circuit		
IC302	E-2	**F**
IC315	E-6	**C**
IC401	D-5	**C**
IC403	E-2	**F**
IC404	E-4	**C**
IC405	E-4	**F**
IC413	E-4	**F**
IC416	E-4	**F**
IC701	D-2	**F**
IC706	E-1	**F**
IC711	E-1	**F**
IC1001	A-5	**F**
IC2001	F-3	**F**
IC3301	C-4	**F**
IC3302	C-4	**C**
IC3502	E-7	**F**
IC4001	C-2	**F**
IC4002	C-2	**F**
IC4003	B-2	**F**
IC4101	C-3	**F**
IC5001	B-3	**F**
IC6002	D-2	**C**
IC6003	E-6	**F**
IC6008	E-3	**C**
IC6009	C-5	**F**
IC6010	D-7	**F**
IC6011	C-6	**F**
Transistor		
Q301	F-7	**C**
Q303	E-2	**F**
Q304	F-2	**F**
Q404	C-5	**C**
Q405	C-5	**C**
Q601	A-1	**F**
Q602	E-3	**C**
Q704	E-2	**F**
Q780	C-7	**C**
Q781	C-1	**F**
Q1001	A-7	**F**
Q1002	B-3	**C**
Q1003	B-6	**F**
Q1004	A-7	**F**
Q1006	B-6	**F**
Q1007	B-6	**F**
Q1008	F-3	**C**
Q1010	B-6	**F**
Q1061	B-7	**F**
Q1062	B-7	**F**
Q1702	F-2	**C**
Q1801	B-3	**C**
Q1802	B-3	**C**
Q1803	B-5	**F**
Q1804	C-6	**F**
Q1806	C-3	**C**
Q1807	C-5	**F**
Q1808	B-5	**F**
Q1809	B-5	**F**
Q1810	B-6	**F**
Q1811	B-6	**F**
Q1812	B-6	**F**
Q1813	C-6	**F**
Q1814	C-5	**F**
Q2001	F-4	**F**
Q3001	D-3	**F**
Q3301	B-5	**C**
Q3302	D-4	**C**
Q3303	D-4	**C**
Q3320	D-4	**C**
Q4002	E-2	**F**
Q4003	D-1	**F**
Q4005	D-1	**F**
Q4006	C-2	**F**
Q4009	D-1	**F**
Q4801	C-2	**F**
Q4802	B-2	**F**
Q4803	C-2	**F**
Q5001	A-3	**F**
Q5002	A-3	**F**
Q5003	A-3	**F**
Q6001	D-2	**C**
Q6002	F-5	**F**
Q6003	C-6	**F**
Q6004	D-2	**C**
Q6006	D-2	**C**
Transistor & Resistor		
QR401	D-5	**F**
QR402	E-5	**F**
QR404	D-4	**F**
QR405	D-5	**C**
QR701	E-7	**C**
QR781	C-1	**F**
QR782	C-1	**F**
QR1001	B-6	**F**
QR1002	F-3	**C**
QR1003	B-3	**C**
QR1005	B-6	**F**
QR1061	B-3	**C**
QR1701	F-2	**C**
QR1802	C-5	**F**
QR1803	C-5	**F**
QR2001	F-5	**C**
QR3002	C-3	**F**
QR3301	B-4	**C**
QR3302	B-4	**C**
QR3305	D-5	**F**
QR3306	B-4	**F**
QR3307	C-3	**F**
QR3308	B-4	**C**
QR3309	B-4	**C**
QR3310	D-5	**F**
QR3311	D-5	**F**
QR4001	C-2	**F**
QR4002	D-2	**F**
QR4004	C-6	**C**
QR6001	E-5	**C**
QR6003	F-6	**F**
QR6004	E-5	**F**
QR6005	D-6	**F**
QR6007	D-1	**C**
QR6009	E-5	**F**
QR6012	D-2	**C**
QR6013	D-2	**C**
QR6014	D-6	**F**
QR6050	C-5	**F**
QR6801	B-7	**C**
Connector		
FP601	A-7	**C**
FP602	A-7	**C**
FP701	E-7	**C**
FP1001	F-3	**C**
FP2001	F-6	**C**
FP2002	C-7	**C**
FP4001	D-7	**C**
FP4002	B-7	**C**
FP5001	A-5	**C**
FP6001	F-2	**C**
FP6002	F-5	**C**
FP6004	F-4	**C**
PP301	F-7	**C**
PP3001	A-4	**C**
PS1003	C-7	**F**
PS3510	D-7	**F**
Test Point		
CKA1	F-3	**C**
CKA2	E-3	**C**
CKA3	F-3	**C**
CKA4	E-3	**C**
CKA5	E-3	**C**
CKA6	E-3	**C**
CKA7	E-3	**C**
CKA8	E-2	**C**
CKA9	F-3	**C**
CKA10	E-2	**C**
CKB3	C-1	**C**
CKB6	C-1	**C**
CKC2	C-7	**C**
CKC4	C-7	**C**
CKC6	C-7	**C**
CKD2	E-2	**C**
CKD3	F-1	**C**
CKD5	E-2	**C**
CKD6	F-1	**C**
CKD7	E-2	**C**
CKD8	E-2	**C**
CKD9	E-2	**C**
CKD10	E-2	**C**
CKD11	E-1	**C**
CKD12	F-1	**C**
CKD14	F-1	**C**
CKD17	E-1	**C**
CKD18	E-1	**C**
CKD19	E-1	**C**
CKD21	E-1	**C**
CKE1	A-5	**C**
CKE5	A-5	**C**
CKE6	A-5	**C**
CKE7	B-5	**C**
CKE9	B-5	**C**
CKE10	A-5	**C**
CKE11	A-6	**C**
CKE12	B-5	**C**
CKF2	F-5	**C**
CKF3	F-5	**C**
CKF4	F-5	**C**
CKF6	F-5	**C**
CKF7	F-5	**C**
CKF8	F-5	**C**
CKF11	F-5	**C**
CKF12	F-5	**C**
CKG1	F-6	**C**
CKG2	F-7	**C**
CKG3	F-7	**C**
CKG4	E-7	**C**
CKG5	F-7	**C**
CKG6	F-7	**C**
CKG7	F-7	**C**
CKG8	F-7	**C**
CKG9	F-7	**C**
CKG10	F-7	**C**
CKG11	F-7	**C**
CKG12	F-7	**C**
CKJ1	D-1	**C**
CKJ2	D-1	**C**
CKJ4	D-1	**C**
CKJ6	D-1	**C**
CKK2	F-6	**C**
CKK3	F-6	**C**
CKK4	F-7	**C**
CKK5	F-6	**C**
CKK6	F-6	**C**
CKK8	F-6	**C**
CKK9	F-6	**C**
CKK11	F-6	**C**
CKK13	E-6	**C**
CKK14	F-6	**C**
CKK16	E-6	**C**
CKK18	F-5	**C**
CKK19	F-6	**C**
CKP1	E-7	**C**
CKP2	E-7	**C**
CKP3	E-7	**C**
CKP4	E-7	**C**
CKP5	D-7	**C**
CKP6	E-7	**C**
CKP7	F-7	**C**
CKP9	E-7	**C**
CKP10	E-7	**C**
CKP11	E-7	**C**
CKP12	E-7	**C**
CKP13	E-6	**C**
CKP14	E-7	**C**
CKP15	E-7	**C**
CKP16	E-7	**C**
CKP17	E-7	**C**
CKP18	F-7	**C**
CKP20	E-7	**C**
CKP21	E-7	**C**
CKQ1	E-5	**C**
CKQ2	E-5	**C**
CKQ3	F-5	**C**
CKQ4	E-4	**C**
CKQ6	E-5	**C**
CKQ7	E-4	**C**
CKQ9	E-4	**C**
CKQ10	E-4	**C**
CKQ12	E-4	**C**
CKQ14	E-4	**C**
CKQ16	E-4	**C**
CKS2	A-7	**C**
CKS3	A-7	**C**
CKS4	A-7	**C**
CKS5	A-7	**C**
CKS6	A-7	**C**
CKS7	A-7	**C**
CKS8	A-7	**C**
CKS9	A-7	**C**
CKS10	B-7	**C**
CKS11	B-7	**C**
CKS12	B-7	**C**
CKT2	A-7	**C**
CKT4	A-7	**C**
CKT5	A-7	**C**
CKT6	A-7	**C**
CKT7	A-7	**C**
CKT8	A-7	**C**
CKT9	A-7	**C**
CKT10	B-7	**C**
CKT11	B-7	**C**
CKT12	B-7	**C**
CKT13	B-7	**C**
CKT14	B-7	**C**
CKW2	D-7	**C**
CKW3	D-7	**C**
CKW4	D-7	**C**
CKW5	D-7	**C**
CKW7	D-7	**C**
CKY4	A-5	**C**
CKY5	B-4	**C**
CKY8	B-4	**C**
CKY9	A-4	**C**
CKY13	B-4	**C**
CKY14	B-4	**C**
CKY18	B-4	**C**
CKY19	B-4	**C**
CKY20	A-4	**C**
CKY22	A-3	**C**
CKY23	A-3	**C**
CKY27	A-3	**C**
CKY31	A-5	**C**
CKY32	A-3	**C**
CKY35	B-4	**C**
CKY36	B-4	**C**
CKY37	B-4	**C**
CKY40	A-5	**C**
CKZ1	B-7	**C**
CKZ2	B-7	**C**
CKZ4	B-7	**C**
CKZ5	B-7	**C**
CKZ6	B-7	**C**
CKZ7	B-7	**C**
CKZ8	B-7	**C**
CKZ10	B-7	**C**
CKZ12	C-7	**C**
CKZ13	C-7	**C**
CKZ14	B-7	**C**
CKZ15	C-7	**C**
CKZ16	C-7	**C**
CL401	E-5	**C**
CL402	E-5	**C**
CL403	D-5	**C**
CL404	E-5	**C**
CL405	E-5	**C**
CL406	E-5	**C**
CL407	D-6	**C**
CL408	E-5	**C**
CL409	E-5	**C**
CL410	E-5	**C**
CL411	E-5	**C**
CL412	E-5	**C**
CL413	E-5	**C**
CL601	E-6	**C**
CL702	D-6	**C**
CL1001	C-3	**C**
CL1012	C-2	**C**
CL1601	B-2	**C**
CL1602	C-2	**C**
CL1603	B-2	**C**
CL1604	B-7	**F**
CL1605	B-2	**C**
CL3003	C-5	**C**
CL3101	C-6	**C**
CL3302	C-4	**C**
CL3303	C-5	**C**
CL3304	C-4	**C**
CL3401	E-4	**C**
CL3402	E-4	**C**
CL3403	E-4	**C**
CL3404	C-4	**C**
CL3405	E-4	**C**
CL3406	E-4	**C**
CL3407	E-3	**C**
CL3408	D-4	**C**
CL3409	E-4	**C**
CL3410	E-4	**C**
CL3411	E-4	**C**
CL3412	E-4	**C**
CL3413	E-4	**C**
CL3414	D-5	**C**
CL3415	D-4	**C**
CL3416	D-5	**C**
CL3501	E-1	**C**
CL3502	E-1	**C**
CL4002	D-7	**C**
CL4004	D-7	**C**
CL6001	E-3	**C**
CL6002	E-3	**C**
CL6003	E-3	**C**
CL6004	E-3	**C**
CL6005	F-2	**C**
CL6006	D-2	**C**
CL6007	D-2	**C**
CL6008	E-3	**C**
CL6009	E-3	**C**
CL6010	E-3	**C**
CL6011	C-2	**C**
CL6012	F-1	**C**
CL6013	E-3	**C**
CL6014	E-1	**C**
CL6015	C-2	**C**
CL6017	E-3	**C**
CL6018	E-2	**C**
CL6019	E-1	**C**
CL6020	C-2	**C**
CL6021	E-3	**C**
CL6022	E-2	**C**
CL6023	D-3	**C**
CL6024	E-2	**C**
CL6101	D-1	**C**
CL6102	E-4	**C**
CL6206	E-2	**C**
CL6207	E-2	**C**
CL6208	E-2	**C**
TL1002	C-2	**C**
TL1003	C-2	**C**
TL1003	C-2	**C**
Diode		
D301	E-6	**C**
D401	D-5	**F**
D601	A-2	**F**
D1002	A-6	**F**
D1003	A-6	**F**
D1004	B-3	**C**
D1009	B-6	**F**
D1015	A-2	**C**
D1020	B-6	**F**
D1602	C-1	**C**
D1604	C-1	**C**
D1701	F-5	**F**
D1801	B-3	**C**
D1802	C-3	**C**
D1803	C-5	**F**
D3303	C-4	**C**
D3305	C-5	**C**
D4001	C-6	**C**
D4101	C-3	**F**
D6002	F-5	**F**
D6010	C-2	**C**
D6016	D-1	**C**
D6020	E-5	**F**
D6023	B-7	**C**
D6201	F-5	**F**
Coil		
L305	E-2	**F**
L401	D-3	**F**
L403	D-2	**F**
L407	E-5	**C**
L408	C-5	**C**
L701	D-7	**C**
L702	D-6	**C**
L703	E-2	**F**
L1001	B-1	**C**
L1002	A-1	**C**
L1003	C-2	**C**
L1004	C-6	**F**
L1006	C-6	**F**
L1007	B-2	**C**
L1008	C-6	**F**
L1010	B-6	**F**
L1011	B-5	**F**
L1014	C-6	**F**
L1015	C-6	**F**
L1061	B-1	**C**
L1062	B-2	**C**
L1801	C-6	**F**
L3001	C-5	**C**
L3005	B-3	**F**
L3302	B-4	**F**
L3303	B-4	**F**
L3304	B-5	**F**
L3305	D-4	**F**
L3306	D-4	**F**
L3307	D-4	**C**
L3308	B-4	**C**
L3309	B-4	**C**
L3320	D-4	**C**
L3501	E-7	**F**
L4001	C-6	**C**
L4005	D-1	**F**
L4006	C-6	**C**
L4102	D-3	**F**
L5001	B-6	**C**
L5002	B-5	**C**
L5003	B-5	**C**
L5004	B-5	**C**
LB301	F-6	**C**
LB302	F-7	**C**
LB303	E-2	**F**
LB402	E-6	**C**
LB403	E-3	**F**
LB404	E-3	**F**
LB412	E-5	**F**
LB5001	B-3	**F**
LB5002	B-3	**F**
LB5003	B-3	**F**
LB5004	B-3	**F**
LB6002	D-6	**F**
LB6003	D-6	**F**
LB6004	E-3	**C**
Transformer		
T1001	A-2	**C**
T4001	E-7	**C**
Crystal Oscillator		
X402	E-5	**C**
X6001	D-3	**C**
X6002	E-3	**C**
Capacitor		
C305	F-6	**C**
C306	F-7	**C**
C307	E-7	**C**
C310	E-7	**C**
C311	F-6	**C**
C312	E-6	**C**
C313	E-2	**F**
C314	F-2	**F**
C317	F-2	**F**
C318	F-2	**F**
C319	F-2	**F**
C320	F-2	**F**
C321	F-1	**F**
C322	F-6	**C**
C325	E-2	**F**
C326	E-2	**F**
C328	F-2	**F**
C401	C-5	**C**
C402	D-5	**C**
C403	D-3	**F**
C404	D-5	**C**
C405	D-5	**C**
C408	C-5	**C**
C413	D-6	**C**
C414	E-5	**C**
C415	D-5	**C**
C416	D-6	**C**
C417	D-5	**F**
C418	E-2	**F**
C420	E-5	**C**
C422	E-5	**C**
C423	E-5	**C**
C424	E-4	**C**
C425	E-6	**C**
C427	E-4	**C**
C428	E-4	**F**
C429	E-5	**F**
C430	D-6	**C**
C431	E-5	**C**
C432	E-6	**C**
C433	C-5	**C**
C434	C-5	**C**
C435	E-5	**F**
C436	C-5	**C**
C437	C-5	**C**
C438	C-5	**C**
C439	C-5	**C**
C440	E-4	**F**
C483	E-4	**F**
C485	D-4	**C**
C486	E-4	**F**
C604	D-4	**C**
C605	D-3	**C**
C701	E-2	**F**
C702	E-1	**F**
C703	E-1	**F**
C704	E-2	**F**
C705	D-7	**C**
C706	D-2	**F**
C707	D-6	**C**
C708	D-6	**C**
C709	E-2	**F**
C711	E-6	**C**
C712	D-7	**C**
C713	E-2	**F**
C715	D-7	**C**
C719	F-1	**F**
C721	E-1	**F**
C1001	B-1	**C**
C1003	A-7	**F**
C1004	C-2	**C**
C1005	C-3	**C**
C1006	B-3	**C**
C1008	B-2	**C**
C1009	B-3	**C**
C1010	C-2	**C**
C1012	A-7	**F**
C1014	B-3	**C**
C1017	A-6	**F**
C1019	B-3	**C**
C1020	A-6	**F**
C1022	B-3	**C**
C1024	B-3	**C**
C1025	A-3	**C**
C1026	B-3	**C**
C1027	B-6	**F**
C1028	A-3	**C**
C1030	B-3	**C**
C1032	B-5	**F**
C1033	A-5	**F**
C1034	A-3	**C**
C1035	A-6	**F**
C1037	A-6	**F**
C1041	C-1	**C**
C1046	B-6	**F**
C1051	A-3	**C**
C1055	C-7	**F**
C1057	C-2	**C**
C1063	B-7	**F**
C1064	B-7	**F**
C1065	B-7	**F**
C1066	B-7	**F**
C1071	A-7	**F**
C1080	B-2	**C**
C1081	B-2	**C**
C1602	C-1	**C**
C1603	B-1	**C**
C1704	C-3	**C**
C1801	C-6	**F**
C1802	B-5	**F**
C1803	C-5	**F**
C1804	C-3	**C**
C1807	B-3	**C**
C1808	B-3	**C**
C2001	F-3	**F**
C2002	F-5	**C**
C2003	F-2	**F**
C2004	F-3	**F**
C2005	F-2	**F**
C2006	F-3	**F**
C2007	F-3	**F**
C2008	F-6	**C**
C2009	F-2	**F**
C2010	E-3	**F**
C2011	E-3	**F**
C2012	E-3	**F**
C2013	E-3	**F**
C2014	E-3	**F**
C2015	E-3	**F**
C2016	F-5	**C**
C2017	F-5	**C**
C2018	F-2	**F**
C2019	F-4	**F**
C2020	F-4	**F**
C2021	F-4	**F**
C2022	F-4	**F**
C2023	F-4	**F**
C2024	F-4	**F**
C2032	F-6	**C**
C2034	E-3	**F**
C2035	E-3	**F**
C2036	E-4	**F**
C2037	E-3	**F**
C3001	C-6	**C**
C3002	C-5	**C**
C3007	B-3	**F**
C3301	B-4	**C**
C3302	B-4	**C**
C3303	B-4	**C**
C3304	B-3	**F**
C3305	B-4	**F**
C3306	B-4	**F**
C3307	B-4	**C**
C3308	B-5	**C**
C3309	B-4	**F**
C3310	B-4	**F**
C3311	B-4	**F**
C3313	B-4	**C**
C3314	B-4	**C**
C3315	B-4	**C**
C3316	C-6	**C**
C3317	C-5	**C**
C3318	C-5	**C**
C3319	C-4	**F**
C3320	C-3	**F**
C3321	C-3	**F**
C3322	C-4	**C**
C3323	C-4	**F**
C3324	C-4	**F**
C3325	C-4	**F**
C3326	C-4	**C**
C3327	C-4	**F**
C3328	C-4	**F**
C3329	C-4	**C**
C3330	C-5	**F**
C3331	C-4	**F**
C3332	C-4	**F**
C3333	C-4	**F**
C3334	D-4	**F**
C3335	C-5	**F**
C3336	B-4	**C**
C3337	B-4	**C**
C3338	C-4	**C**
C3339	C-3	**C**
C3341	C-4	**C**
C3342	C-4	**C**
C3343	C-4	**C**
C3344	C-4	**C**
C3345	C-4	**C**
C3346	C-4	**C**
C3347	C-4	**C**
C3348	C-4	**C**
C3349	B-4	**C**
C3350	B-4	**C**
C3351	C-4	**C**
C3352	B-4	**C**
C3353	C-5	**C**
C3354	C-5	**C**
C3355	C-5	**F**
C3356	C-5	**F**
C3357	C-5	**F**
C3358	B-5	**F**
C3361	C-4	**F**
C3362	C-4	**F**
C3363	B-5	**F**
C3370	C-6	**C**
C3380	D-4	**C**
C3505	D-1	**C**
C3511	E-7	**F**
C3512	E-2	**C**
C3513	E-1	**C**
C3517	E-1	**C**
C3552	D-1	**C**
C4001	C-7	**C**
C4002	C-7	**C**
C4003	C-7	**C**
C4004	E-1	**F**
C4006	C-2	**F**
C4007	C-2	**F**
C4008	C-7	**C**
C4009	C-2	**F**
C4010	C-2	**F**
C4011	D-1	**F**
C4012	D-7	**C**
C4013	C-2	**F**
C4014	D-1	**F**
C4015	D-1	**F**
C4016	D-7	**C**
C4017	D-7	**C**
C4018	D-1	**F**
C4019	D-7	**C**
C4020	C-1	**F**
C4021	D-1	**F**
C4022	B-7	**C**
C4023	C-7	**C**
C4024	B-6	**C**
C4025	C-2	**F**
C4026	D-2	**F**
C4027	D-1	**F**
C4032	C-1	**F**
C4033	D-2	**F**
C4034	C-6	**C**
C4035	C-1	**F**
C4036	C-2	**F**
C4037	D-7	**C**
C4038	C-6	**C**
C4039	C-2	**F**
C4040	C-7	**C**
C4041	D-1	**F**
C4101	C-5	**C**
C4102	C-3	**F**
C4104	C-3	**F**
C4105	C-3	**F**
C4106	C-3	**F**
C4107	C-3	**F**
C4801	C-1	**F**
C4803	B-1	**F**
C4804	B-2	**F**
C4805	C-2	**F**
C4806	C-2	**F**
C4807	C-2	**F**
C4814	B-7	**C**
C5001	A-3	**F**
C5002	A-3	**F**
C5003	A-3	**F**
C5004	A-3	**F**
C5005	A-3	**F**
C5006	A-3	**F**
C5007	A-3	**F**
C5008	A-3	**F**
C5009	B-3	**F**
C5010	B-3	**F**
C5011	B-3	**F**
C5012	B-5	**C**
C5013	B-5	**C**
C5014	B-6	**C**
C5015	B-5	**C**
C5016	B-6	**C**
C5018	B-6	**C**
C5019	B-3	**F**
C5020	B-3	**F**
C5021	B-3	**F**
C5022	B-4	**F**
C5023	B-5	**C**
C5041	B-5	**C**
C6001	D-3	**C**
C6002	D-2	**C**
C6004	E-5	**F**
C6005	D-7	**F**
C6006	D-6	**F**
C6007	E-5	**F**
C6009	D-5	**F**
C6010	D-3	**C**
C6011	D-2	**C**
C6012	D-2	**C**
C6013	D-2	**C**
C6014	C-3	**C**
C6015	D-6	**F**
C6016	D-2	**C**
C6017	D-2	**C**
C6018	D-2	**C**
C6019	D-6	**F**
C6020	C-1	**C**
C6021	E-2	**C**
C6022	E-2	**C**
C6025	D-7	**F**
C6026	C-2	**C**
C6027	D-2	**C**
C6028	D-2	**C**
C6029	E-2	**C**
C6031	E-7	**F**
C6032	E-7	**F**
C6033	E-7	**F**
C6038	C-2	**C**
C6039	D-2	**C**
C6040	D-3	**C**
C6041	D-2	**C**
C6042	D-5	**F**
C6044	D-7	**F**
C6045	D-7	**F**
C6047	D-5	**F**
C6051	C-5	**F**
C6053	E-2	**C**
C6054	E-2	**C**
C6056	D-2	**C**
C6057	D-7	**F**
C6058	D-2	**C**
Resistor		
R201	E-2	**F**
R301	F-2	**F**
R302	F-2	**F**
R303	F-6	**C**
R304	F-7	**C**
R305	F-7	**C**
R306	F-7	**C**
R307	F-7	**C**
R308	E-6	**C**
R309	F-2	**F**
R312	E-3	**F**
R313	F-2	**F**
R315	F-2	**F**
R316	F-2	**F**
R317	F-2	**F**
R318	E-2	**F**
R403	D-5	**C**
R404	D-5	**C**
R406	E-4	**C**
R408	D-5	**C**
R409	C-5	**C**
R412	D-3	**F**
R413	D-4	**F**
R414	D-3	**F**
R415	E-5	**C**
R416	C-5	**C**
R417	D-3	**F**
R418	C-5	**C**
R419	C-5	**C**
R420	D-5	**C**
R421	E-3	**F**
R422	C-5	**C**
R423	D-3	**F**
R424	E-2	**F**
R425	E-2	**F**
R426	E-3	**F**
R427	C-6	**C**
R428	C-5	**C**
R430	C-5	**C**
R431	E-4	**F**
R433	D-3	**F**
R434	D-4	**C**
R436	D-5	**F**
R437	D-4	**F**
R438	E-4	**F**
R440	D-5	**C**
R444	D-4	**F**
R445	D-4	**F**
R446	E-4	**C**
R447	D-3	**F**
R448	E-4	**C**
R449	E-4	**C**
R450	E-4	**C**
R451	E-4	**C**
R458	D-3	**F**
R459	D-3	**F**
R470	D-3	**F**
R476	D-3	**F**
R477	E-2	**F**
R479	D-3	**F**
R480	D-3	**F**
R481	D-3	**F**
R482	D-3	**F**
R601	B-2	**F**
R602	B-1	**F**
R603	A-1	**F**
R604	E-3	**C**
R605	D-4	**C**
R606	E-3	**C**
R607	D-3	**C**
R608	D-3	**C**
R609	D-3	**C**
R620	A-2	**F**
R621	A-1	**F**
R622	A-2	**F**
R623	A-1	**F**
R624	A-2	**F**
R625	A-1	**F**
R626	A-1	**F**
R701	D-7	**C**
R702	D-7	**C**
R703	D-2	**F**
R704	D-7	**C**
R705	D-6	**C**
R706	D-2	**F**
R707	E-7	**C**
R709	F-7	**C**
R712	D-2	**F**
R713	E-1	**F**
R714	E-2	**F**
R716	E-1	**F**
R717	E-7	**C**
R718	E-1	**F**
R722	E-1	**F**
R723	E-1	**F**
R726	E-1	**F**
R727	E-2	**F**
R728	E-2	**F**
R729	E-2	**F**
R730	E-1	**F**
R731	E-1	**F**
R732	E-2	**F**
R733	E-1	**F**
R734	E-2	**F**
R735	E-1	**F**
R736	E-1	**F**
R737	E-2	**F**
R738	E-2	**F**
R740	E-2	**F**
R743	F-7	**C**
R745	E-1	**F**
R761	F-7	**C**
R780	C-1	**F**
R781	C-1	**F**
R782	C-1	**F**
R783	B-1	**F**
R784	C-1	**F**
R785	C-1	**F**
R1001	B-2	**C**
R1002	B-2	**C**
R1004	B-3	**C**
R1005	B-3	**C**
R1006	B-2	**C**
R1007	A-7	**F**
R1008	B-3	**C**
R1009	B-3	**C**
R1010	F-3	**C**
R1012	A-3	**C**
R1013	A-3	**C**
R1014	B-3	**C**
R1015	A-3	**C**
R1016	B-5	**F**
R1017	A-3	**C**
R1018	B-3	**C**
R1019	B-3	**C**
R1020	B-5	**F**
R1021	A-5	**F**
R1022	A-5	**F**
R1023	A-5	**F**
R1024	B-6	**F**
R1025	B-6	**F**
R1028	C-3	**C**
R1029	F-3	**C**
R1030	E-3	**C**
R1035	A-6	**F**
R1038	B-2	**C**
R1039	B-3	**C**
R1040	B-3	**C**
R1041	B-6	**F**
R1042	C-6	**F**
R1043	C-6	**F**
R1044	C-6	**F**
R1052	A-5	**F**
R1053	C-6	**F**
R1057	B-3	**C**
R1063	B-3	**C**
R1064	B-7	**F**
R1065	B-7	**F**
R1066	B-6	**F**
R1067	B-6	**F**
R1068	B-6	**F**
R1069	B-6	**F**
R1071	A-3	**C**
R1072	A-3	**C**
R1073	A-3	**C**
R1085	B-2	**C**
R1086	B-2	**C**
R1601	B-7	**F**
R1602	C-1	**C**
R1603	C-1	**C**
R1699	C-1	**C**
R1704	F-2	**C**
R1705	E-3	**C**
R1706	F-3	**C**
R1707	E-3	**C**
R1709	E-2	**C**
R1710	F-2	**C**
R1801	B-5	**F**
R1802	B-5	**F**
R1803	B-6	**F**
R1804	B-6	**F**
R1805	B-3	**C**
R1806	B-3	**C**
R1807	C-5	**F**
R1808	B-3	**C**
R1809	C-6	**F**
R1810	C-6	**F**
R1811	C-5	**F**
R1812	C-5	**F**
R1814	C-3	**C**
R1819	C-3	**C**
R1823	B-3	**C**
R1824	B-5	**F**
R1825	B-5	**F**
R1826	B-5	**F**
R1827	B-5	**F**
R1828	B-3	**C**
R1829	B-5	**F**
R1830	B-6	**F**
R1831	B-6	**F**
R1832	B-6	**F**
R1833	B-6	**F**
R1834	B-6	**F**
R1836	C-5	**F**
R1838	C-5	**F**
R1839	C-5	**F**
R1840	C-5	**F**
R1841	C-5	**F**
R2001	F-6	**C**
R2002	F-6	**C**
R2003	F-5	**C**
R2004	F-2	**F**
R2005	F-2	**F**
R2006	F-3	**F**
R2007	F-3	**F**
R2008	F-3	**F**
R2009	F-3	**F**
R2010	F-6	**C**
R2011	F-2	**F**
R2012	F-4	**F**
R2013	F-3	**F**
R2014	F-5	**C**
R2015	F-6	**C**
R2016	F-6	**C**
R2017	F-6	**C**
R2018	F-6	**C**
R2019	F-5	**C**
R2021	F-4	**F**
R2022	F-4	**F**
R3001	C-5	**C**
R3002	C-5	**C**
R3003	C-5	**C**
R3004	C-5	**C**
R3005	D-3	**F**
R3017	D-3	**F**
R3040	C-4	**C**
R3041	C-4	**C**
R3042	D-4	**C**
R3301	B-4	**C**
R3302	B-4	**C**
R3303	B-5	**C**
R3306	B-4	**C**
R3307	B-4	**F**
R3308	B-4	**C**
R3309	C-4	**F**
R3310	A-4	**F**
R3311	B-4	**F**
R3312	B-4	**C**
R3314	B-4	**F**
R3316	B-4	**F**
R3317	C-5	**C**
R3318	B-5	**C**
R3319	C-5	**F**
R3320	C-5	**C**
R3322	D-4	**F**
R3323	C-4	**F**
R3325	C-5	**F**
R3326	B-4	**C**
R3327	C-4	**C**
R3328	C-4	**C**
R3331	B-4	**C**
R3332	B-4	**C**
R3333	C-4	**F**
R3334	B-4	**C**
R3344	C-4	**C**
R3345	C-4	**C**
R3346	D-4	**C**
R3350	D-4	**C**
R3351	D-4	**C**
R3352	C-6	**C**
R3504	D-1	**C**
R3508	D-1	**C**
R3509	D-1	**C**
R3510	D-1	**C**
R3551	D-1	**C**
R4001	D-1	**F**
R4002	C-1	**F**
R4003	C-6	**C**
R4004	C-3	**F**
R4005	D-2	**F**
R4006	C-3	**F**
R4007	C-2	**F**
R4008	C-6	**C**
R4009	C-2	**F**
R4010	C-3	**F**
R4011	C-7	**C**
R4012	D-1	**F**
R4013	D-1	**F**
R4014	D-7	**C**
R4015	C-2	**F**
R4016	D-1	**F**
R4017	D-1	**F**
R4018	D-1	**F**
R4019	C-1	**F**
R4020	D-1	**F**
R4021	D-1	**F**
R4022	C-1	**F**
R4023	D-1	**F**
R4024	B-3	**F**
R4025	D-7	**C**
R4026	D-7	**C**
R4030	C-1	**F**
R4031	C-1	**F**
R4032	C-7	**C**
R4033	D-6	**C**
R4034	D-1	**F**
R4035	D-2	**F**
R4036	D-1	**F**
R4037	B-2	**F**
R4038	D-1	**F**
R4039	B-2	**F**
R4040	D-1	**F**
R4041	C-6	**C**
R4042	C-2	**F**
R4043	C-6	**C**
R4044	C-6	**C**
R4102	C-3	**F**
R4103	C-3	**F**
R4104	C-3	**F**
R4106	C-3	**F**
R4107	C-3	**F**
R4801	C-1	**F**
R4802	C-1	**F**
R4803	C-2	**F**
R4804	C-2	**F**
R4805	B-1	**F**
R4806	B-2	**F**
R4807	C-2	**F**
R4808	C-2	**F**
R4809	C-2	**F**
R4810	C-2	**F**
R4811	C-2	**F**
R4812	B-7	**C**
R4817	C-6	**C**
R5001	B-5	**C**
R5002	B-3	**F**
R5003	B-3	**F**
R5004	B-6	**C**
R5005	B-3	**F**
R5006	B-6	**C**
R5007	A-4	**F**
R5008	A-4	**F**
R6001	F-7	**F**
R6002	F-6	**F**
R6003	E-3	**C**
R6004	D-1	**C**
R6005	E-5	**F**
R6006	D-1	**C**
R6007	D-1	**C**
R6008	D-2	**C**
R6009	F-5	**C**
R6010	D-7	**F**
R6011	E-5	**F**
R6012	E-5	**F**
R6013	F-6	**F**
R6014	F-7	**F**
R6017	E-5	**F**
R6018	D-7	**F**
R6019	E-5	**F**
R6020	D-2	**C**
R6021	D-2	**C**
R6022	D-1	**C**
R6023	D-1	**C**
R6024	D-7	**F**
R6025	D-2	**C**
R6026	D-2	**C**
R6027	F-6	**F**
R6028	D-6	**F**
R6029	D-1	**C**
R6030	F-6	**F**
R6031	D-6	**F**
R6032	F-6	**F**
R6033	F-5	**C**
R6034	D-7	**F**
R6035	C-2	**C**
R6036	D-2	**C**
R6037	D-2	**C**
R6038	D-6	**F**
R6039	F-6	**F**
R6040	F-7	**F**
R6041	D-6	**F**
R6042	C-6	**F**
R6043	E-5	**F**
R6044	E-3	**C**
R6046	D-2	**C**
R6048	E-3	**C**
R6051	F-7	**F**
R6052	F-7	**F**
R6053	E-7	**F**
R6054	F-7	**F**
R6055	D-2	**C**
R6056	D-2	**C**
R6057	C-2	**C**
R6058	D-2	**C**
R6059	D-2	**C**
R6060	F-6	**F**
R6061	D-1	**C**
R6062	F-6	**F**
R6063	F-7	**F**
R6064	E-2	**C**
R6065	E-7	**F**
R6066	E-7	**F**
R6067	D-2	**C**
R6068	E-4	**C**
R6069	F-2	**C**
R6070	E-7	**F**
R6071	D-7	**F**
R6075	E-2	**C**
R6078	D-2	**C**
R6079	D-2	**C**
R6080	C-2	**C**
R6081	F-6	**F**
R6082	D-2	**C**
R6083	E-3	**C**
R6085	D-2	**C**
R6086	E-1	**C**
R6088	D-2	**C**
R6089	D-7	**F**
R6092	C-1	**C**
R6093	D-2	**C**
R6094	C-2	**C**
R6095	F-7	**F**
R6097	F-6	**F**
R6100	E-2	**C**
R6101	E-2	**C**
R6103	F-6	**F**
R6104	D-6	**F**
R6105	D-7	**F**
R6106	D-7	**F**
R6107	D-7	**F**
R6108	D-6	**F**
R6109	D-6	**F**
R6110	D-5	**F**
R6111	D-5	**F**
R6112	D-6	**F**
R6113	E-5	**F**
R6114	E-3	**C**
R6116	E-5	**F**
R6117	E-3	**C**
R6118	E-5	**F**
R6119	E-5	**F**
R6120	E-5	**F**
R6121	E-5	**F**
R6122	F-5	**F**
R6123	D-2	**C**
R6131	E-2	**C**
R6132	D-5	**F**
R6133	D-5	**F**
R6211	F-5	**F**
R6801	B-1	**F**
R6802	B-7	**C**
Resistor Array		
RA301	E-6	**C**
RA601	A-2	**F**
RA704	E-7	**C**
RA6001	D-2	**C**
RA6002	F-5	**F**
RA6008	E-2	**C**
RA6010	E-2	**C**

ADDRESS INFORMATION **C**…..COMPONENT SIDE **F**……FOIL SIDE

VEK8872

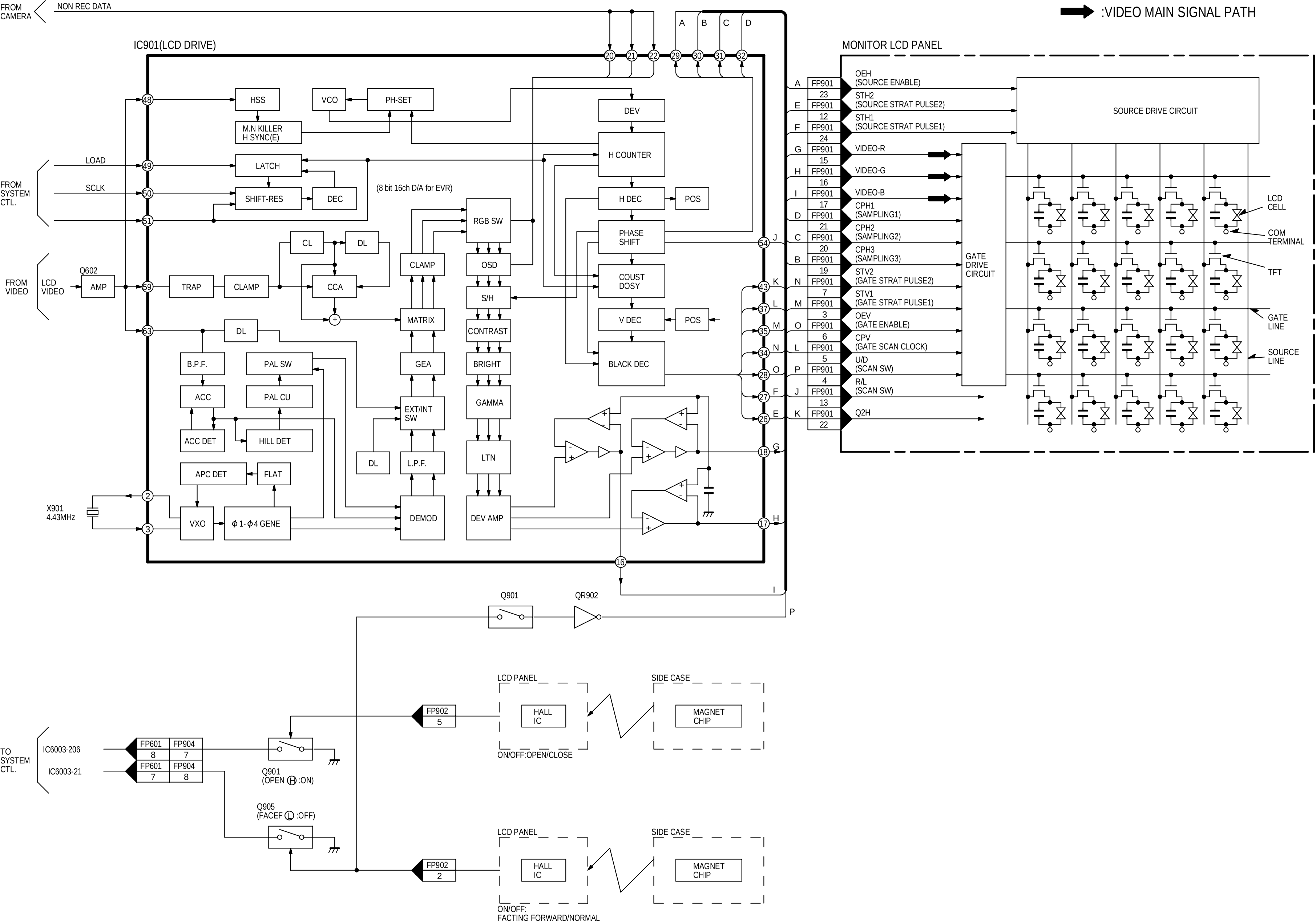

L6801
C6801
TL6803
IC6801
D6802
D6803
D6804
TL6801
P6802
TL6802
VJB000E8
SW6801
D6801
B
A
1
2
3


:AUDIO MAIN SIGNAL PATH
R4817
0
TO POWER/
Page:38
REG 4.8V
1
R4801
2200
R4802
560
R4804
8200
R4808
82K
Q4801
2SD2216
SWITCHING
REG 4.8V
R4812
10K
C4805
0.022
C4806
0.022
Q4803
2SD2216
(AMP)
R4809
82K
C4814
6.3V47
C4801
0.082
R4803
330K
TO AUDIO/
Page:31
ECM GND
14
MIC IN
13
R4807
22K
R4811
0
R4810
3300
C4807
0.01
TO AUDIO/
Page:31
15
ECM OUT
C4803
0.022
Q4802
2SD2216
(AMP)
C4804
1000P
R4805
220K
R4806
1200
C
B
A
1
2
3
4

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

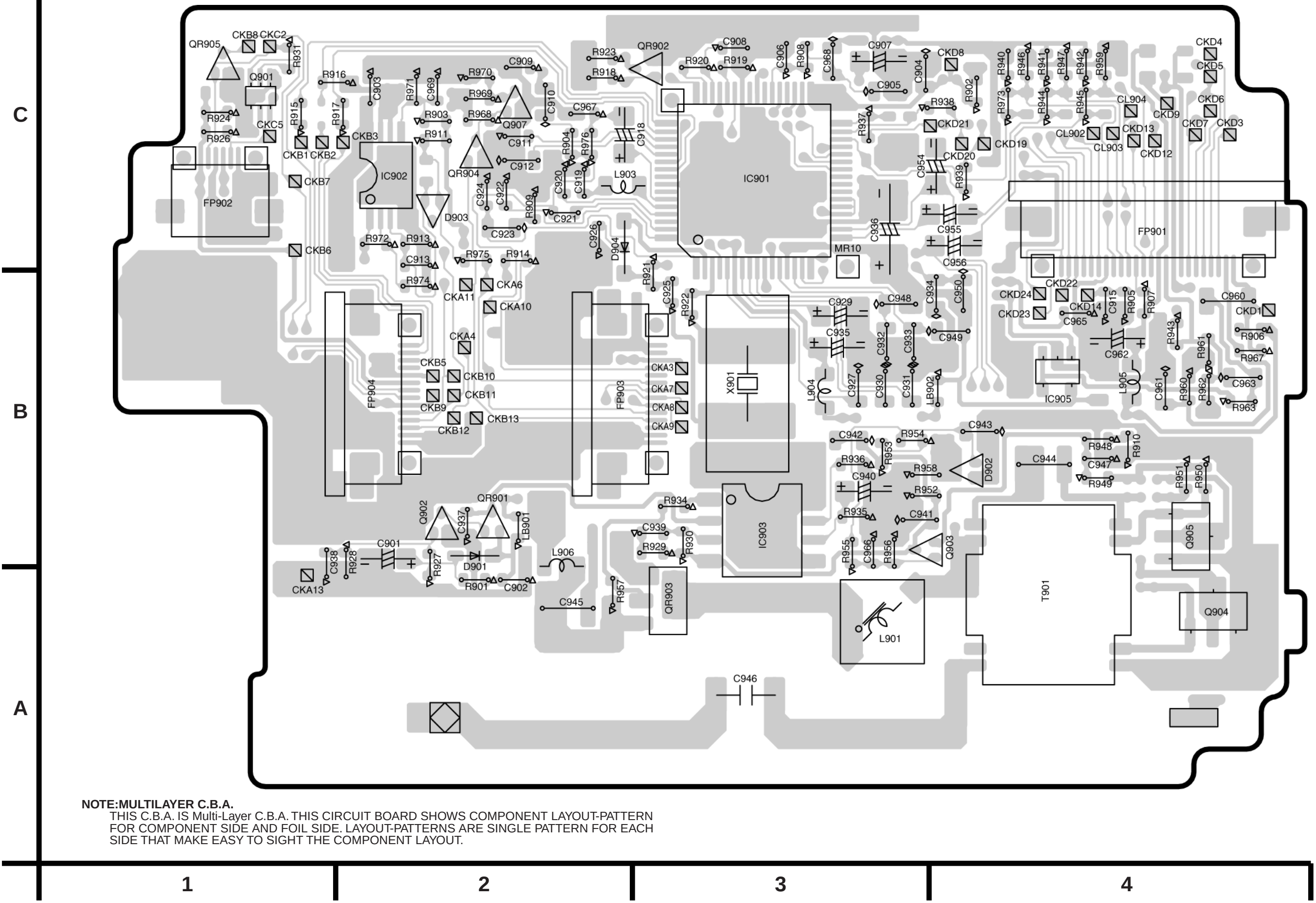
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS (   ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.


:VIDEO MAIN SIGNAL PATH
FROM CAMERA
NON REC DATA
IC901(LCD DRIVE)
MONITOR LCD PANEL
FROM SYSTEM CTL.
LOAD
SCLK
FROM VIDEO
LCD VIDEO
Q602
AMP
X901
4.43MHz
HSS
M.N KILLER
H SYNC(E)
VCO
PH-SET
LATCH
SHIFT-RES
DEC
(8 bit 16ch D/A for EVR)
CL
DL
CCA
TRAP
CLAMP
MATRIX
GEA
EXT/INT SW
L.P.F.
DEMOD
B.P.F.
ACC
ACC DET
PAL SW
PAL CU
HILL DET
APC DET
FLAT
VXO
ϕ1-ϕ4 GENE
RGB SW
OSD
S/H
CONTRAST
BRIGHT
GAMMA
LTN
DEV AMP
DEV
H COUNTER
H DEC
POS
PHASE SHIFT
COUST DOSY
V DEC
BLACK DEC
SOURCE DRIVE CIRCUIT
GATE DRIVE CIRCUIT
OEH
(SOURCE ENABLE)
STH2
(SOURCE STRAT PULSE2)
STH1
(SOURCE STRAT PULSE1)
VIDEO-R
VIDEO-G
VIDEO-B
CPH1
(SAMPLING1)
CPH2
(SAMPLING2)
CPH3
(SAMPLING3)
STV2
(GATE STRAT PULSE2)
STV1
(GATE STRAT PULSE1)
OEV
(GATE ENABLE)
CPV
(GATE SCAN CLOCK)
U/D
(SCAN SW)
R/L
(SCAN SW)
Q2H
FP901 23
FP901 12
FP901 24
FP901 15
FP901 16
FP901 17
FP901 21
FP901 20
FP901 19
FP901 7
FP901 3
FP901 6
FP901 5
FP901 4
FP901 13
FP901 22
LCD CELL
COM TERMINAL
TFT
GATE LINE
SOURCE LINE
Q901
QR902
LCD PANEL
HALL IC
SIDE CASE
MAGNET CHIP
ON/OFF:OPEN/CLOSE
ON/OFF:
FACTING FORWARD/NORMAL
FP902 5
FP902 2
TO SYSTEM CTL.
IC6003-206
IC6003-21
FP601 8
FP904 7
FP601 7
FP904 8
Q901
(OPEN Ⓗ:ON)
Q905
(FACEF Ⓛ:OFF)
A B C D E F G H I J K L M N O P
20 21 22 29 30 31 32 48 49 50 51 59 63 2 3 54 43 37 35 34 28 27 26 18 17 16

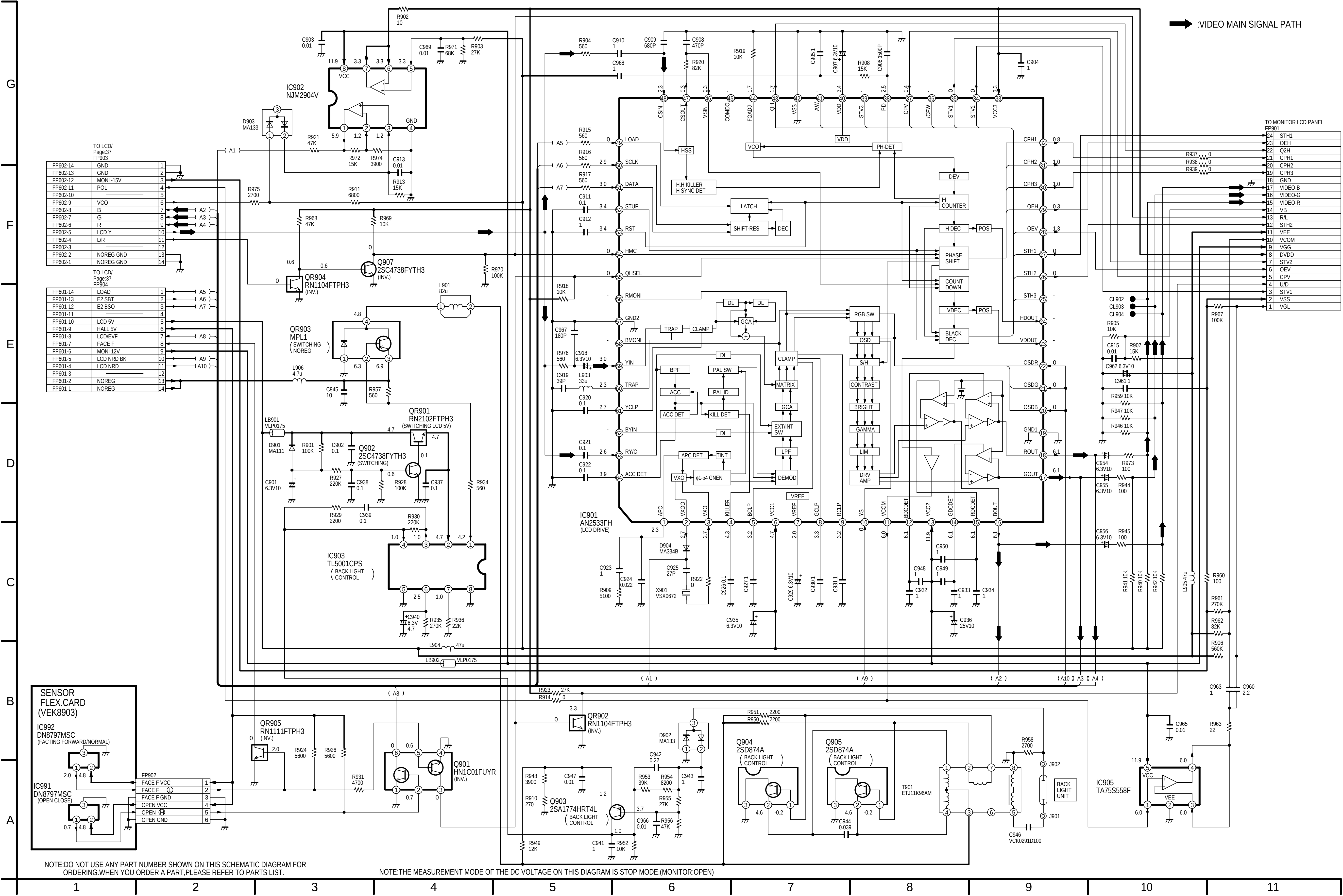
Monitor C.B.A.													
Integrated Circuit		**Diode**		C910	C-2	C941	B-3	R905	B-4	R936	B-3	R963	B-4
IC901	C-3	D901	B-2	C911	C-2	C942	B-3	R906	B-4	R937	C-3	R967	B-4
IC902	C-2	D902	B-4	C912	C-2	C943	B-4	R907	B-4	R938	C-4	R968	C-2
IC903	B-3	D903	C-2	C913	C-2	C944	B-4	R908	C-3	R939	C-4	R969	C-2
IC905	B-4	D904	C-3	C915	B-4	C945	A-2	R909	C-2	R940	C-4	R970	C-2
Transistor		**Coil**		C918	C3	C946	A-3	R910	B-4	R941	C-4	R971	C-2
Q901	C-1	L901	A-3	C919	C-2	C947	B-4	R911	C-2	R942	C-4	R972	C-2
Q902	B-2	L903	C-2	C920	C-2	C948	B-3	R913	C-2	R943	B-4	R973	C-4
Q903	B-3	L904	B-3	C921	C-2	C949	B-4	R914	C-2	R944	C-4	R974	B-2
Q904	A-4	L905	B-4	C922	C-2	C950	B-4	R915	C-1	R945	C-4	R975	C-2
Q905	B-4	L906	A-2	C923	C-2	C954	C-4	R916	C-1	R946	C-4	R976	C-2
Q907	C-2	LB901	B-2	C924	C-2	C955	C-4	R917	C-2	R947	C-4		
Transistor & Resistor		LB902	B-4	C925	B-3	C956	C-4	R918	C-2	R948	B-4		
QR901	B-2	**Transformer**		C926	C-2	C960	B-4	R919	C-3	R949	B-4		
QR902	C-3	T901	A-4	C927	B-3	C961	B-4	R920	C-3	R950	B-4		
QR903	A-3	**Crystal Osillator**		C929	B-3	C962	B-4	R921	B-3	R951	B-4		
QR904	C-2	X901	B-3	C930	B-3	C963	B-4	R922	B-3	R952	B-3		
QR905	C-1	**Capacitor**		C931	B-3	C965	B-4	R923	C-2	R953	B-3		
Connector		C901	B-2	C932	B-3	C966	B-3	R924	C-1	R954	B-3		
FP901	C-4	C902	A-2	C933	B-3	C967	C-2	R926	C-1	R955	B-3		
FP902	C-1	C903	C-2	C934	B-4	C968	C-3	R927	A-2	R956	B-3		
FP903	B-3	C904	C-3	C935	B-3	C969	C-2	R928	A-2	R957	A-2		
FP904	B-2	C905	C-3	C936	C-3	**Resistor**		R929	B-3	R958	B-3		
Test Point		C906	C-3	C937	B-2	R901	A-2	R930	B-3	R959	C-4		
CL902	C-4	C907	C-3	C938	A-1	R902	C-4	R931	C-1	R960	B-4		
CL903	C-4	C908	C-3	C939	B-3	R903	C-2	R934	B-3	R961	B-4		
CL904	C-4	C909	C-2	C940	B-3	R904	C-2	R935	B-3	R962	B-4		

VEP26236A


C
B
A
1
2
3
4
QR905
CKB8
CKC2
R931
Q901
R924
R926
CKC5
R916
R915
R917
CKB1
CKB2
CKB3
R903
R911
C903
R971
C969
R970
C909
R969
R968
Q907
C910
C911
C912
QR904
IC902
CKB7
FP902
D903
CKB6
R972
R913
C913
R974
R975
R914
CKA6
CKA11
CKA10
CKA4
CKB5
CKB10
CKB11
CKB9
CKB12
CKB13
FP904
FP903
CKA3
CKA7
CKA8
CKA9
C924
C922
R909
C923
C921
C920
C919
R904
R976
C967
C918
L903
C926
D904
R921
C925
R922
R923
R918
QR902
R920
C908
R919
C906
R908
C968
C907
C905
C904
CKD8
IC901
R937
R938
R902
CKD21
CKD20
CKD19
C954
R939
C936
C955
C956
MR10
C929
C935
C948
C934
C950
C949
C932
C933
C927
C930
C931
LB902
L904
X901
R940
R946
R941
R947
R942
R959
R973
R944
R945
CL904
CKD9
CKD4
CKD5
CKD6
CKD7
CKD3
CL902
CL903
CKD13
CKD12
FP901
CKD22
CKD24
CKD14
CKD23
C965
C915
R905
R907
C960
CKD1
R906
R967
R943
C962
IC905
R961
L905
C961
R960
R962
C963
R963
C942
R954
C943
R953
R936
C940
R958
D902
C944
R948
R910
C947
R949
R952
R935
C941
R955
C966
R956
Q903
R951
R950
Q905
T901
Q904
L901
IC903
R934
C939
R930
R929
QR903
R957
C945
L906
Q902
C937
QR901
LB901
D901
R901
C902
R927
C901
C938
R928
CKA13
C946

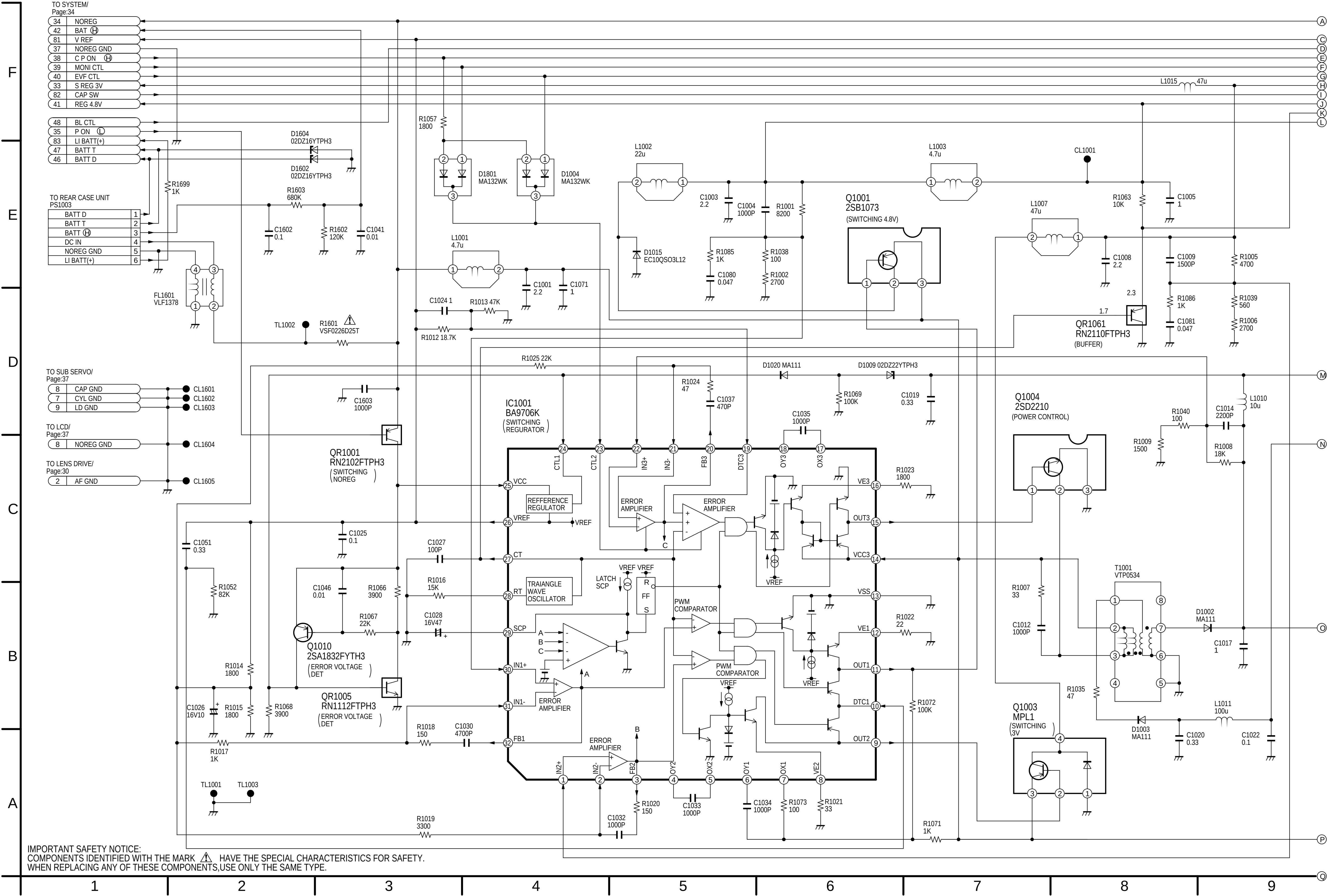
NOTE:MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

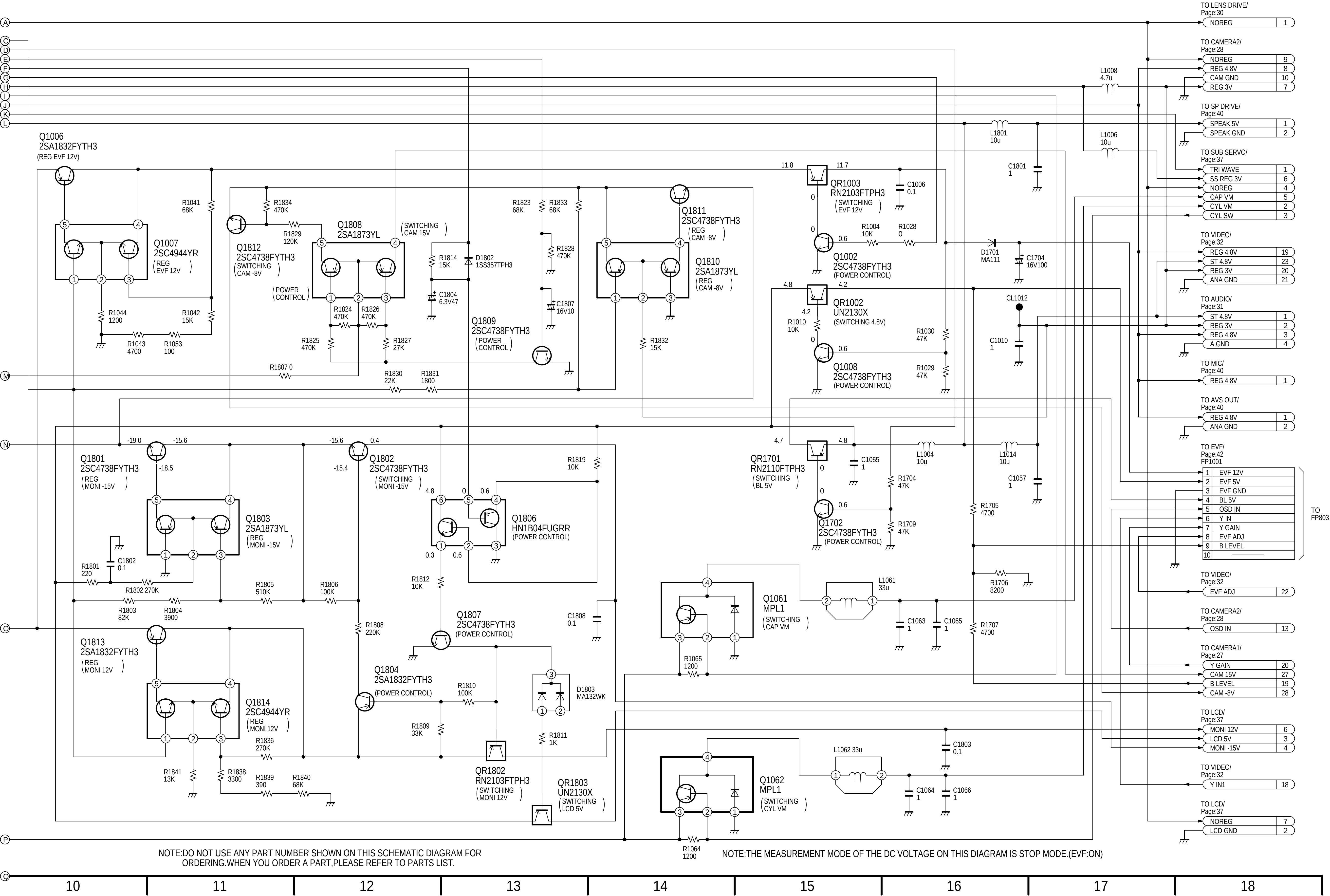

:VIDEO MAIN SIGNAL PATH
IC902
NJM2904V
D903
MA133
TO LCD/
Page:37
FP903
FP602-14 GND 1
FP602-13 GND 2
FP602-12 MONI -15V 3
FP602-11 POL 4
FP602-10 5
FP602-9 VCO 6
FP602-8 B 7
FP602-7 G 8
FP602-6 R 9
FP602-5 LCD Y 10
FP602-4 L/R 11
FP602-3 12
FP602-2 NOREG GND 13
FP602-1 NOREG GND 14
TO LCD/
Page:37
FP904
FP601-14 LOAD 1
FP601-13 E2 SBT 2
FP601-12 E2 BSO 3
FP601-11 4
FP601-10 LCD 5V 5
FP601-9 HALL 5V 6
FP601-8 LCD/EVF 7
FP601-7 FACE F 8
FP601-6 MONI 12V 9
FP601-5 LCD NRD BK 10
FP601-4 LCD NRD 11
FP601-3 12
FP601-2 NOREG 13
FP601-1 NOREG 14
Q907
2SC4738FYTH3
(INV.)
QR904
RN1104FTPH3
(INV.)
QR903
MPL1
(SWITCHING NOREG)
L901
82u
L906
4.7u
QR901
RN2102FTPH3
(SWITCHING LCD 5V)
LB901
VLP0175
D901
MA111
Q902
2SC4738FYTH3
(SWITCHING)
IC903
TL5001CPS
(BACK LIGHT CONTROL)
L904 47u
LB902 VLP0175
IC901
AN2533FH
(LCD DRIVE)
CSIN CSOUT VSIN COMDC FOADJ QH VSS AW VDD STV3 PD CPV /CPW STV1 STV2 VCC3
LOAD SCLK DATA STUP RST HMC QHSEL RMONI GND2 BMONI YIN TRAP YCLP BYIN RY/C ACC DET
APC VXOO VXOI KILLER BCLP VCC1 VREF GCLP RCLP YS VCOM BDCDET VCC2 GDCDET RDCDET BOUT
CPH1 CPH2 CPH3 OEH OEV STH1 STH2 STH3 HDOUT VDOUT OSDR OSDG OSDB GND1 ROUT GOUT
HSS
H.H KILLER
H SYNC DET
VCO
VDD
PH-DET
DEV
H COUNTER
LATCH
SHIFT-RES
DEC
H DEC
POS
PHASE SHIFT
COUNT DOWN
VDEC
POS
BLACK DEC
DL
DL
GCA
TRAP
CLAMP
RGB SW
OSD
S/H
CONTRAST
BRIGHT
GAMMA
LIM
DRV AMP
CLAMP
MATRIX
GCA
EXT/INT SW
LPF
DEMOD
BPF
ACC
ACC DET
PAL SW
PAL ID
KILL DET
DL
APC DET
TINT
VXO
ϕ1-ϕ4 GNEN
VREF
D904
MA334B
X901
VSX0672
TO MONITOR LCD PANEL
FP901
24 STH1
23 OEH
22 Q2H
21 CPH1
20 CPH2
19 CPH3
18 GND
17 VIDEO-B
16 VIDEO-G
15 VIDEO-R
14 VB
13 R/L
12 STH2
11 VEE
10 VCOM
9 VGG
8 DVDD
7 STV2
6 OEV
5 CPV
4 U/D
3 STV1
2 VSS
1 VGL
CL902
CL903
CL904
L905 47u
SENSOR
FLEX.CARD
(VEK8903)
IC992
DN8797MSC
(FACING FORWARD/NORMAL)
IC991
DN8797MSC
(OPEN CLOSE)
FP902
FACE F VCC 1
FACE F L 2
FACE F GND 3
OPEN VCC 4
OPEN H 5
OPEN GND 6
QR905
RN1111FTPH3
(INV.)
Q901
HN1C01FUYR
(INV.)
QR902
RN1104FTPH3
(INV.)
D902
MA133
Q903
2SA1774HRT4L
(BACK LIGHT CONTROL)
Q904
2SD874A
(BACK LIGHT CONTROL)
Q905
2SD874A
(BACK LIGHT CONTROL)
T901
ETJ11K96AM
C946
VCK0291D100
J902
J901
BACK LIGHT UNIT
IC905
TA75S558F
VCC
VEE
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10
G F E D C B A
1 2 3 4 5 6 7 8 9 10 11

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(MONITOR:OPEN)

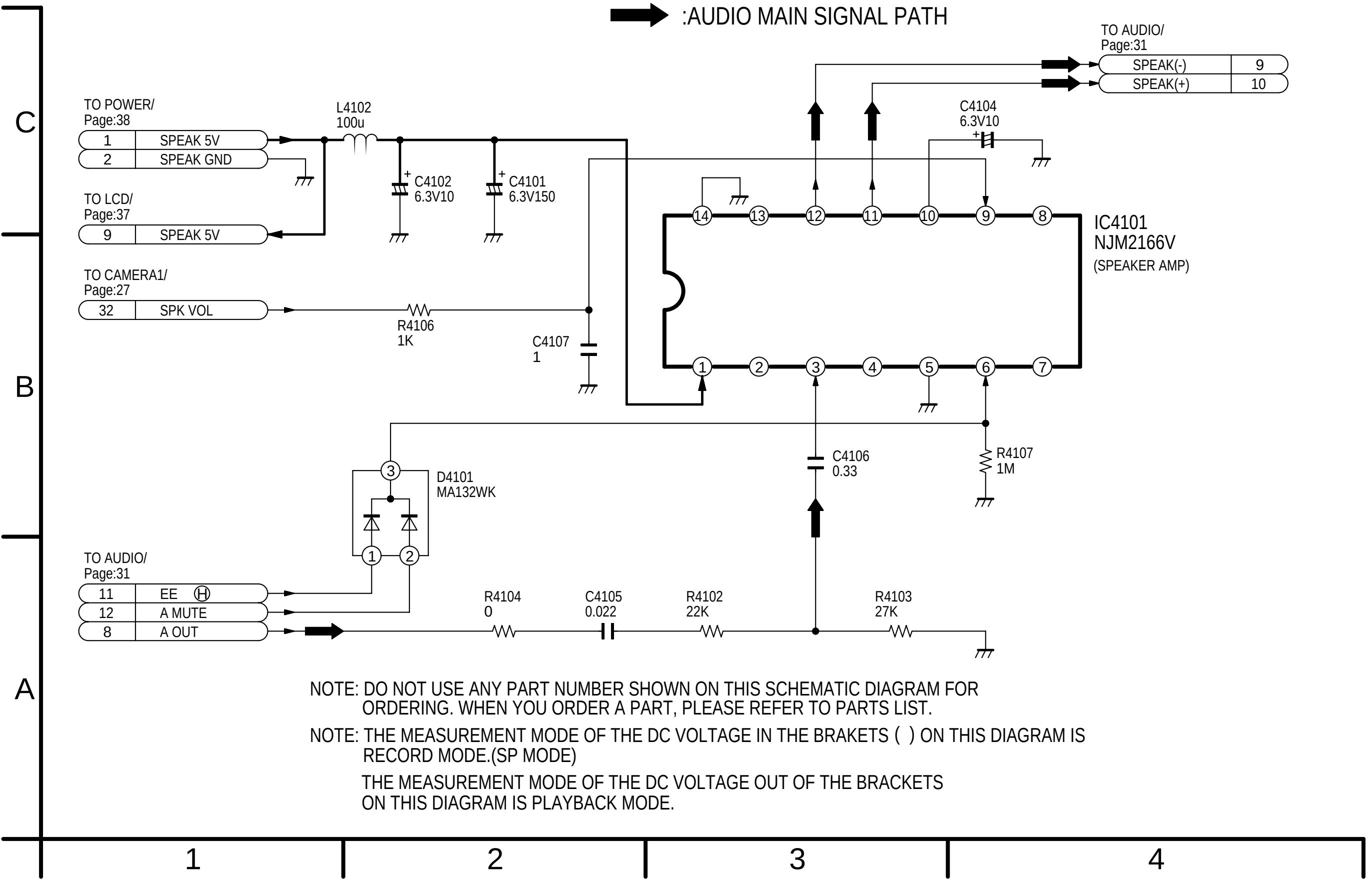

TO SYSTEM/
Page:34
34 NOREG
42 BAT Ⓗ
81 V REF
37 NOREG GND
38 C P ON Ⓗ
39 MONI CTL
40 EVF CTL
33 S REG 3V
82 CAP SW
41 REG 4.8V
48 BL CTL
35 P ON Ⓛ
83 LI BATT(+)
47 BATT T
46 BATT D
TO REAR CASE UNIT
PS1003
BATT D 1
BATT T 2
BATT Ⓗ 3
DC IN 4
NOREG GND 5
LI BATT(+) 6
D1604
02DZ16YTPH3
D1602
02DZ16YTPH3
R1699
1K
R1603
680K
C1602
0.1
R1602
120K
C1041
0.01
FL1601
VLF1378
TL1002
R1601
VSF0226D25T
R1057
1800
D1801
MA132WK
D1004
MA132WK
L1001
4.7u
C1001
2.2
C1071
1
C1024 1
R1013 47K
R1012 18.7K
L1002
22u
C1003
2.2
C1004
1000P
R1001
8200
D1015
EC10QSO3L12
R1085
1K
C1080
0.047
R1038
100
R1002
2700
L1003
4.7u
Q1001
2SB1073
(SWITCHING 4.8V)
CL1001
L1007
47u
R1063
10K
C1005
1
C1008
2.2
C1009
1500P
R1005
4700
R1086
1K
C1081
0.047
R1039
560
R1006
2700
2.3
1.7
QR1061
RN2110FTPH3
(BUFFER)
L1015
47u
TO SUB SERVO/
Page:37
8 CAP GND
7 CYL GND
9 LD GND
CL1601
CL1602
CL1603
TO LCD/
Page:37
8 NOREG GND
CL1604
TO LENS DRIVE/
Page:30
2 AF GND
CL1605
C1603
1000P
QR1001
RN2102FTPH3
(SWITCHING NOREG)
R1025 22K
R1024
47
C1037
470P
D1020 MA111
D1009 02DZ22YTPH3
R1069
100K
C1019
0.33
IC1001
BA9706K
(SWITCHING REGURATOR)
C1035
1000P
Q1004
2SD2210
(POWER CONTROL)
R1040
100
C1014
2200P
L1010
10u
R1009
1500
R1008
18K
CTL1 CTL2 IN3+ IN3- FB3 DTC3 OY3 OX3
VCC
REFFERENCE REGULATOR
VREF
ERROR AMPLIFIER
ERROR AMPLIFIER
VE3
OUT3
VCC3
R1023
1800
CT
RT
TRAIANGLE WAVE OSCILLATOR
SCP
LATCH SCP
VREF VREF
R FF S
PWM COMPARATOR
PWM COMPARATOR
VSS
VE1
OUT1
DTC1
OUT2
R1022
22
IN1+
IN1-
FB1
ERROR AMPLIFIER
ERROR AMPLIFIER
IN2+ IN2- FB2 OY2 OX2 OY1 OX1 VE2
C1051
0.33
R1052
82K
C1025
0.1
C1027
100P
C1046
0.01
R1066
3900
R1016
15K
R1067
22K
C1028
16V47
Q1010
2SA1832FYTH3
(ERROR VOLTAGE DET)
R1014
1800
C1026
16V10
R1015
1800
R1068
3900
QR1005
RN1112FTPH3
(ERROR VOLTAGE DET)
R1018
150
C1030
4700P
R1017
1K
T1001
VTP0534
R1007
33
C1012
1000P
D1002
MA111
C1017
1
R1035
47
L1011
100u
D1003
MA111
C1020
0.33
C1022
0.1
Q1003
MPL1
(SWITCHING 3V)
R1072
100K
TL1001
TL1003
R1020
150
C1033
1000P
C1034
1000P
R1073
100
R1021
33
C1032
1000P
R1019
3300
R1071
1K
A C D E F G H I J K L M N O P Q
F E D C B A
1 2 3 4 5 6 7 8 9

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.


A
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
TO LENS DRIVE/
Page:30
NOREG 1
TO CAMERA2/
Page:28
NOREG 9
REG 4.8V 8
CAM GND 10
REG 3V 7
L1008
4.7u
TO SP DRIVE/
Page:40
SPEAK 5V 1
SPEAK GND 2
L1801
10u
L1006
10u
TO SUB SERVO/
Page:37
TRI WAVE 1
SS REG 3V 6
NOREG 4
CAP VM 5
CYL VM 2
CYL SW 3
C1801
1
TO VIDEO/
Page:32
REG 4.8V 19
ST 4.8V 23
REG 3V 20
ANA GND 21
TO AUDIO/
Page:31
ST 4.8V 1
REG 3V 2
REG 4.8V 3
A GND 4
TO MIC/
Page:40
REG 4.8V 1
TO AVS OUT/
Page:40
REG 4.8V 1
ANA GND 2
TO EVF/
Page:42
FP1001
1 EVF 12V
2 EVF 5V
3 EVF GND
4 BL 5V
5 OSD IN
6 Y IN
7 Y GAIN
8 EVF ADJ
9 B LEVEL
10
TO FP803
TO VIDEO/
Page:32
EVF ADJ 22
TO CAMERA2/
Page:28
OSD IN 13
TO CAMERA1/
Page:27
Y GAIN 20
CAM 15V 27
B LEVEL 19
CAM -8V 28
TO LCD/
Page:37
MONI 12V 6
LCD 5V 3
MONI -15V 4
TO VIDEO/
Page:32
Y IN1 18
TO LCD/
Page:37
NOREG 7
LCD GND 2
Q1006
2SA1832FYTH3
(REG EVF 12V)
Q1007
2SC4944YR
(REG EVF 12V)
R1041
68K
R1044
1200
R1042
15K
R1043
4700
R1053
100
Q1812
2SC4738FYTH3
(SWITCHING CAM -8V)
R1834
470K
R1829
120K
Q1808
2SA1873YL
(SWITCHING CAM 15V)
(POWER CONTROL)
R1824
470K
R1826
470K
R1825
470K
R1827
27K
R1807 0
R1830
22K
R1831
1800
R1814
15K
D1802
1SS357TPH3
C1804
6.3V47
R1823
68K
R1833
68K
R1828
470K
C1807
16V10
Q1809
2SC4738FYTH3
(POWER CONTROL)
Q1811
2SC4738FYTH3
(REG CAM -8V)
Q1810
2SA1873YL
(REG CAM -8V)
R1832
15K
11.8
11.7
QR1003
RN2103FTPH3
(SWITCHING EVF 12V)
C1006
0.1
0
R1004
10K
R1028
0
0.6
Q1002
2SC4738FYTH3
(POWER CONTROL)
D1701
MA111
C1704
16V100
4.8
4.2
QR1002
UN2130X
(SWITCHING 4.8V)
R1010
10K
CL1012
C1010
1
R1030
47K
R1029
47K
Q1008
2SC4738FYTH3
(POWER CONTROL)
-19.0
-15.6
-18.5
Q1801
2SC4738FYTH3
(REG MONI -15V)
Q1803
2SA1873YL
(REG MONI -15V)
R1801
220
C1802
0.1
R1802 270K
R1803
82K
R1804
3900
R1805
510K
R1806
100K
-15.4
0.4
Q1802
2SC4738FYTH3
(SWITCHING MONI -15V)
4.8
0.6
Q1806
HN1B04FUGRR
(POWER CONTROL)
0.3
R1819
10K
R1812
10K
C1808
0.1
R1808
220K
Q1807
2SC4738FYTH3
(POWER CONTROL)
Q1813
2SA1832FYTH3
(REG MONI 12V)
Q1814
2SC4944YR
(REG MONI 12V)
R1836
270K
R1841
13K
R1838
3300
R1839
390
R1840
68K
Q1804
2SA1832FYTH3
(POWER CONTROL)
R1810
100K
R1809
33K
QR1802
RN2103FTPH3
(SWITCHING MONI 12V)
D1803
MA132WK
R1811
1K
QR1803
UN2130X
(SWITCHING LCD 5V)
4.7
QR1701
RN2110FTPH3
(SWITCHING BL 5V)
C1055
1
L1004
10u
L1014
10u
C1057
1
R1704
47K
Q1702
2SC4738FYTH3
(POWER CONTROL)
R1709
47K
R1705
4700
R1706
8200
R1707
4700
Q1061
MPL1
(SWITCHING CAP VM)
L1061
33u
C1063
1
C1065
1
R1065
1200
Q1062
MPL1
(SWITCHING CYL VM)
L1062 33u
C1803
0.1
C1064
1
C1066
1
R1064
1200
10
11
12
13
14
15
16
17
18

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(EVF:ON)

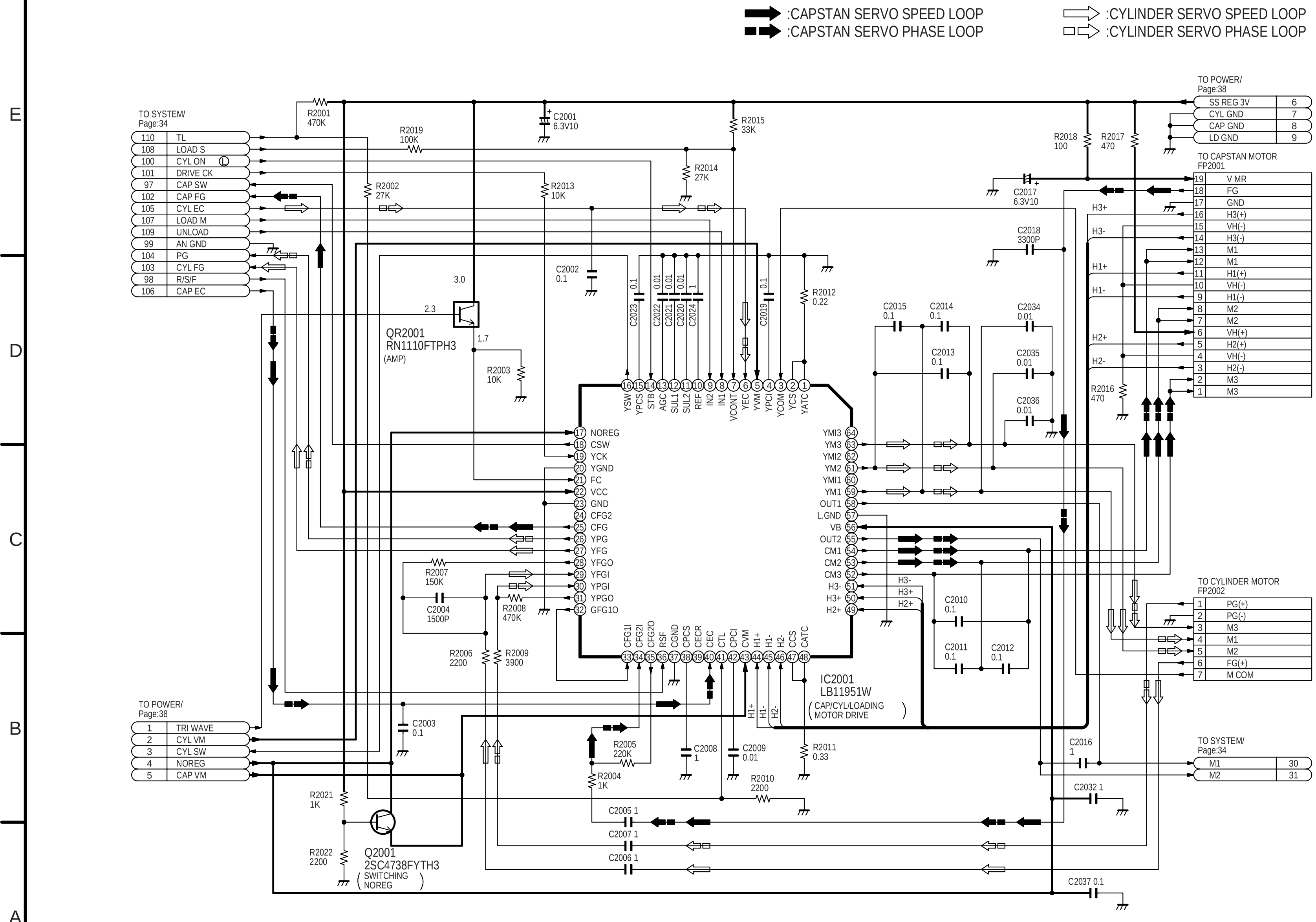


:AUDIO MAIN SIGNAL PATH
TO AUDIO/
Page:31
SPEAK(-) 9
SPEAK(+) 10
TO POWER/
Page:38
1 SPEAK 5V
2 SPEAK GND
L4102
100u
C4102
6.3V10
C4101
6.3V150
C4104
6.3V10
TO LCD/
Page:37
9 SPEAK 5V
TO CAMERA1/
Page:27
32 SPK VOL
R4106
1K
C4107
1
IC4101
NJM2166V
(SPEAKER AMP)
14 13 12 11 10 9 8
1 2 3 4 5 6 7
D4101
MA132WK
C4106
0.33
R4107
1M
TO AUDIO/
Page:31
11 EE Ⓗ
12 A MUTE
8 A OUT
R4104
0
C4105
0.022
R4102
22K
R4103
27K
C
B
A
1
2
3
4

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.



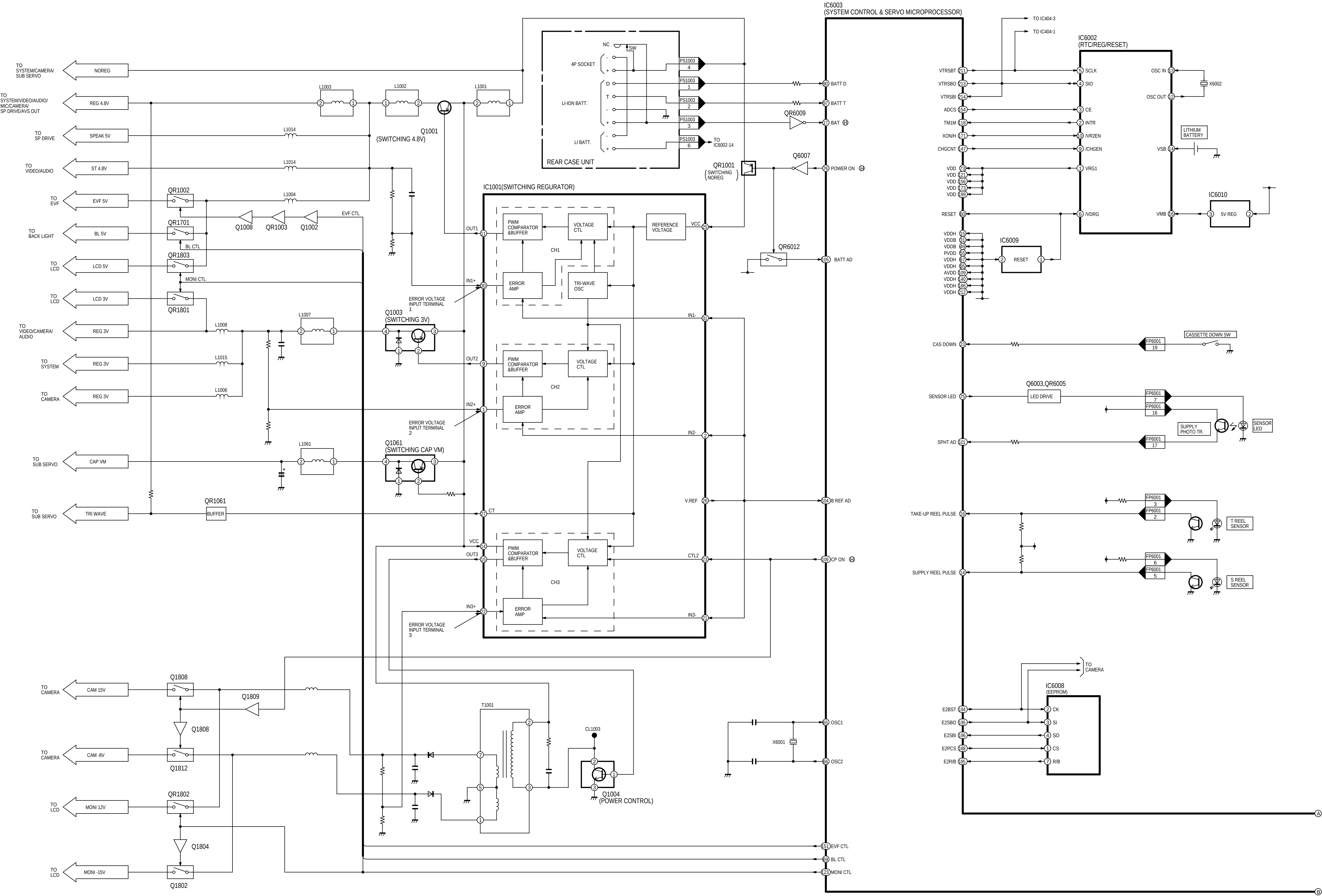
:CAPSTAN SERVO SPEED LOOP
:CAPSTAN SERVO PHASE LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP
TO SYSTEM/ Page:34
110 TL
108 LOAD S
100 CYL ON Ⓛ
101 DRIVE CK
97 CAP SW
102 CAP FG
105 CYL EC
107 LOAD M
109 UNLOAD
99 AN GND
104 PG
103 CYL FG
98 R/S/F
106 CAP EC
TO POWER/ Page:38
1 TRI WAVE
2 CYL VM
3 CYL SW
4 NOREG
5 CAP VM
TO POWER/ Page:38
SS REG 3V 6
CYL GND 7
CAP GND 8
LD GND 9
TO CAPSTAN MOTOR FP2001
19 V MR
18 FG
17 GND
16 H3(+)
15 VH(-)
14 H3(-)
13 M1
12 M1
11 H1(+)
10 VH(-)
9 H1(-)
8 M2
7 M2
6 VH(+)
5 H2(+)
4 VH(-)
3 H2(-)
2 M3
1 M3
TO CYLINDER MOTOR FP2002
1 PG(+)
2 PG(-)
3 M3
4 M1
5 M2
6 FG(+)
7 M COM
TO SYSTEM/ Page:34
M1 30
M2 31
R2001 470K
R2019 100K
R2002 27K
R2013 10K
C2001 6.3V10
R2015 33K
R2014 27K
R2018 100
R2017 470
C2017 6.3V10
C2018 3300P
H3+
H3-
H1+
H1-
H2+
H2-
R2016 470
C2002 0.1
C2023 0.1
C2022 0.01
C2021 0.01
C2020 0.01
C2024 1
C2019 0.1
R2012 0.22
C2015 0.1
C2014 0.1
C2013 0.1
C2034 0.01
C2035 0.01
C2036 0.01
3.0
2.3
1.7
QR2001
RN1110FTPH3
(AMP)
R2003 10K
IC2001
LB11951W
(CAP/CYL/LOADING MOTOR DRIVE)
1 YATC
2 YCS
3 YCOM
4 YPCI
5 YVM
6 YEC
7 VCONT
8 IN1
9 IN2
10 REF
11 SUL2
12 SUL1
13 AGC
14 STB
15 YPCS
16 YSW
17 NOREG
18 CSW
19 YCK
20 YGND
21 FC
22 VCC
23 GND
24 CFG2
25 CFG
26 YPG
27 YFG
28 YFGO
29 YFGI
30 YPGI
31 YPGO
32 GFG1O
33 CFG1I
34 CFG2I
35 CFG2O
36 RSF
37 CGND
38 CPCS
39 CECR
40 CEC
41 CTL
42 CPCI
43 CVM
44 H1+
45 H1-
46 H2-
47 CCS
48 CATC
49 H2+
50 H3+
51 H3-
52 CM3
53 CM2
54 CM1
55 OUT2
56 VB
57 L.GND
58 OUT1
59 YM1
60 YMI1
61 YM2
62 YMI2
63 YM3
64 YMI3
R2007 150K
C2004 1500P
R2008 470K
R2006 2200
R2009 3900
C2010 0.1
C2011 0.1
C2012 0.1
C2003 0.1
R2005 220K
R2004 1K
C2008 1
C2009 0.01
R2010 2200
R2011 0.33
C2016 1
C2032 1
C2005 1
C2007 1
C2006 1
C2037 0.1
R2021 1K
R2022 2200
Q2001
2SC4738FYTH3
(SWITCHING NOREG)
A
B
C
D
E
1
2
3
4
5
6
7

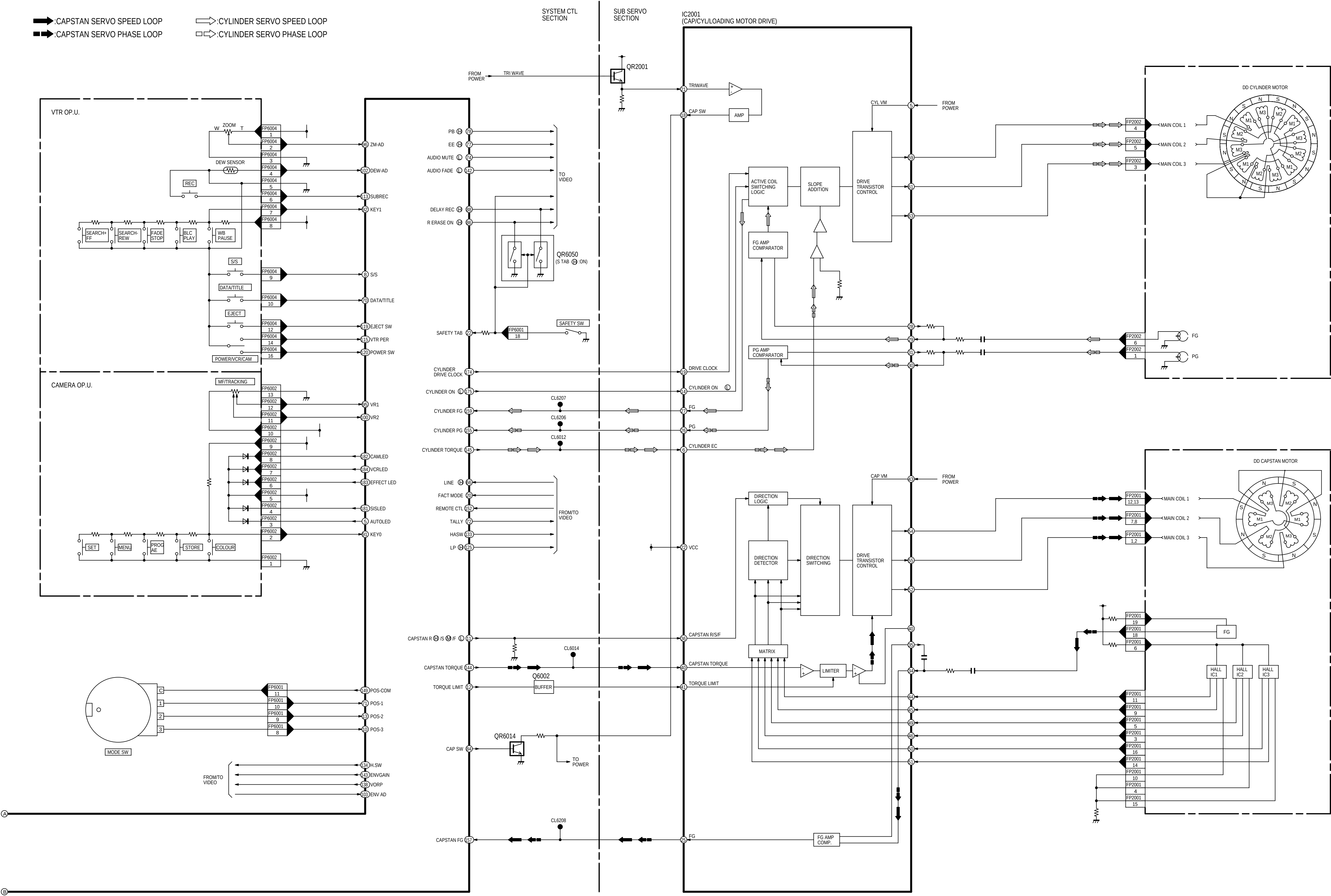
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

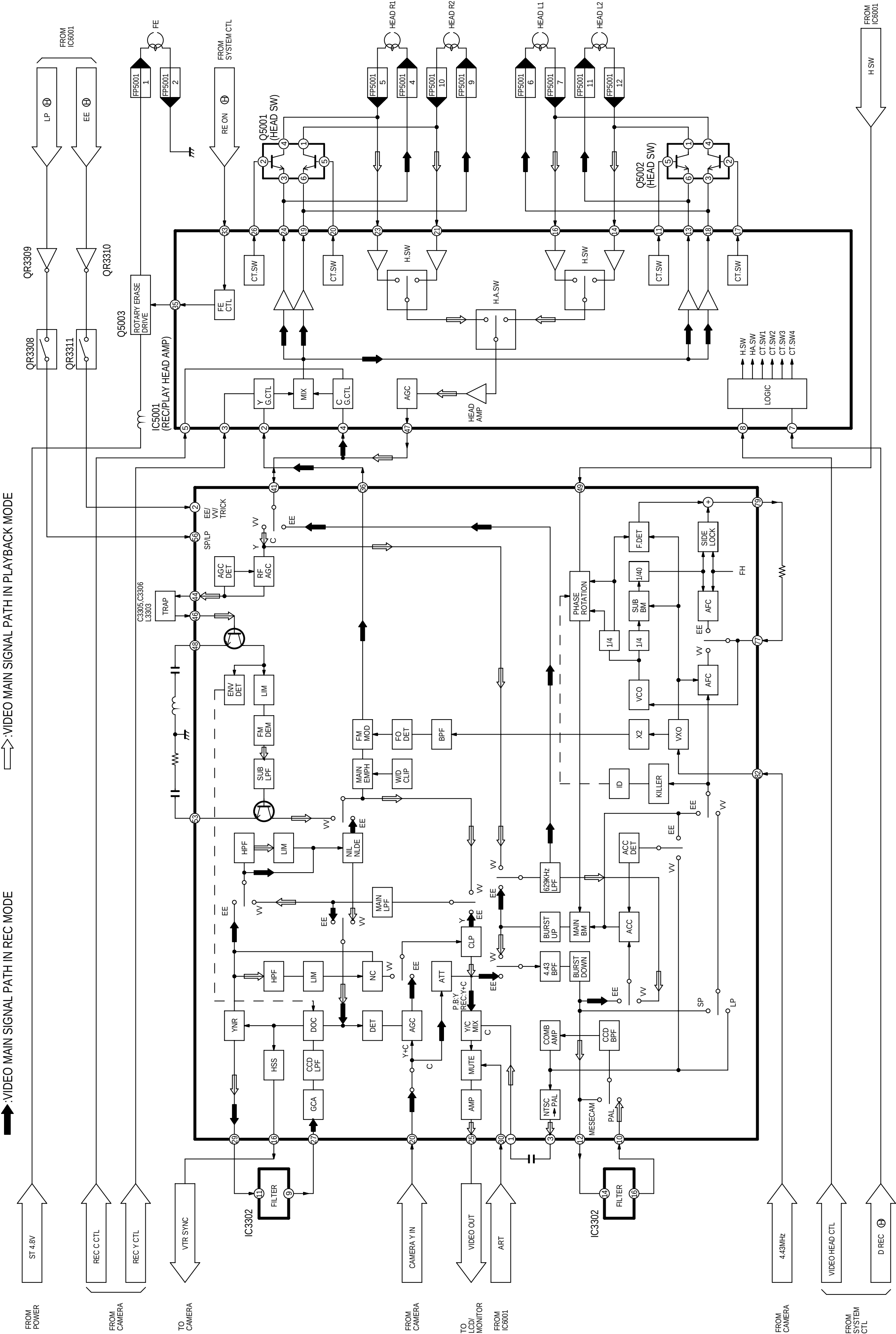
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

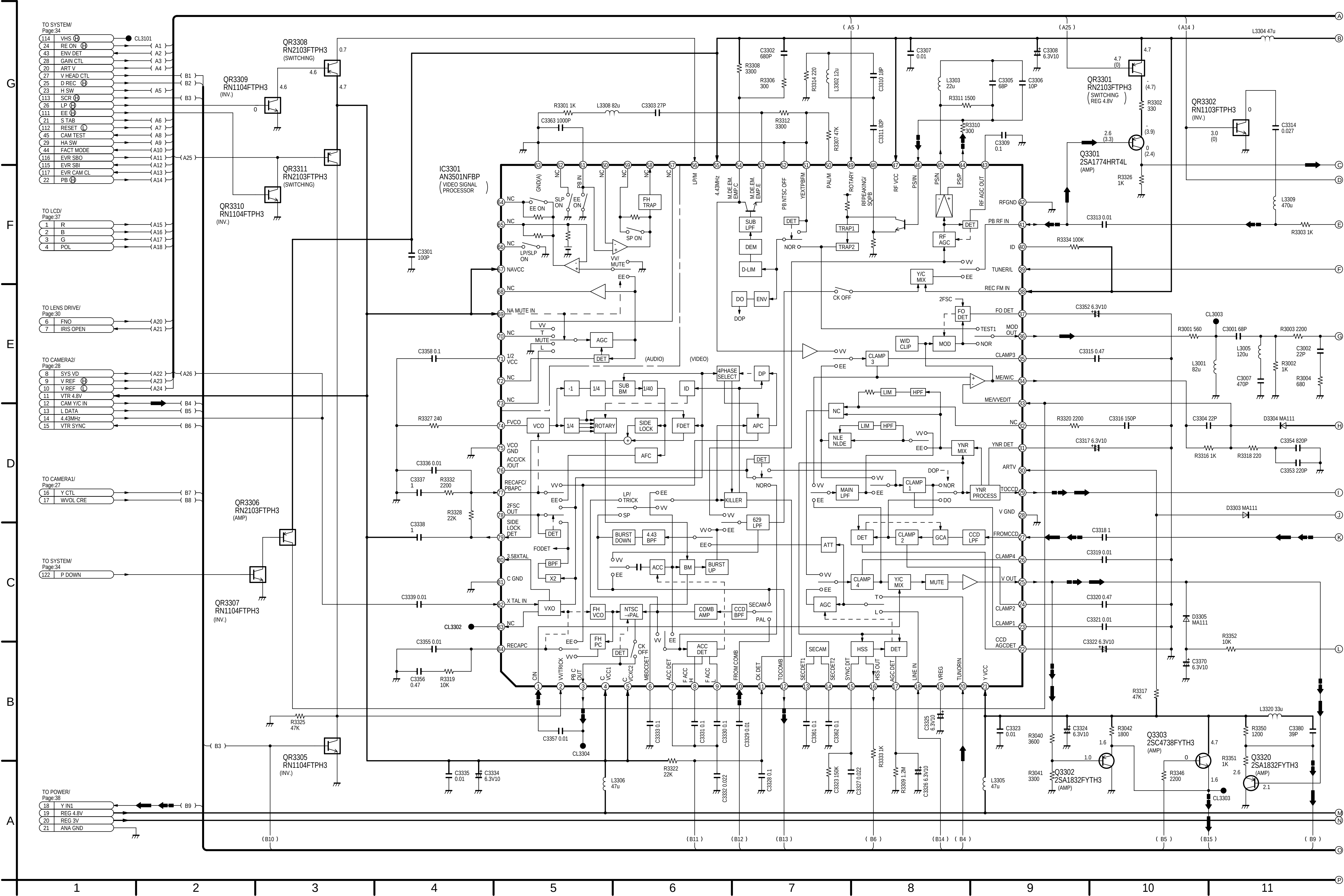
Ref No.	IC6002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	2.6	3.0	0.2	2.6	2.6	3.0	-	0	3.0	0	4.9	0.5	0.4	-	3.1	5.0				
PLAY	2.6	3.0	0.2	2.6	2.6	3.0	-	0	3.0	0	4.9	0.5	0.4	-	3.1	5.0				
REC.	2.6	3.0	0.2	2.6	2.6	3.0	-	0	3.0	0	4.9	0.5	0.4	-	3.1	5.0				
F.F.	2.6	3.0	0.2	2.6	2.6	3.0	-	0	3.0	0	4.9	0.5	0.4	-	3.1	5.0				
REW	2.6	3.0	0.2	2.6	2.6	3.0	-	0	3.0	0	4.9	0.5	0.4	-	3.1	5.0				
Ref No.	IC6008																			
MODE	1	2	3	4	5	6	7	8												
STOP	3.0	2.0	2.9	2.9	0	0	2.9	2.9												
PLAY	3.0	2.0	2.9	2.9	0	0	2.9	2.9												
REC.	3.0	2.0	2.9	2.9	0	0	2.9	2.9												
F.F.	3.0	2.0	2.9	2.9	0	0	2.9	2.9												
REW	3.0	2.0	2.9	2.9	0	0	2.9	2.9												

Ref No.	Q6001			Q6004			Q6006													
MODE	E	C	B	E	C	B	1	2	3	4	5									
STOP	0	4.8	-0.3	0	0	0.5	0.5	0	0	2.9	0									
PLAY	0	4.8	-0.3	0	0	0.5	0	0	0.5	0	2.9									
REC.	0	4.8	-0.3	0	0	0.5	0.5	0	0	2.9	0									
F.F.	0	4.8	-0.3	0	0	0.5	0	0	0.5	0	2.9									
REW	0	4.8	-0.3	0	0	0.5	0	0	0.5	0	2.9									
Ref No.	QR6001			QR6007			QR6012			QR6013										
MODE	E	C	B	E	C	B	E	C	B	E	C	B								
STOP	-1.2	0	0	0	0	3.0	7.1	7.1	0	3.0	3.0	2.7								
PLAY	-	0	3.0	0	0	3.0	7.1	7.1	0	3.0	3.0	2.7								
REC.	-0.9	0	0	0	0	3.0	7.1	7.1	0	3.0	3.0	2.7								
F.F.	-	0	3.0	0	0	3.0	7.1	7.1	0	3.0	3.0	2.7								
REW	-	0	3.0	0	0	3.0	7.1	7.1	0	3.0	3.0	2.7								

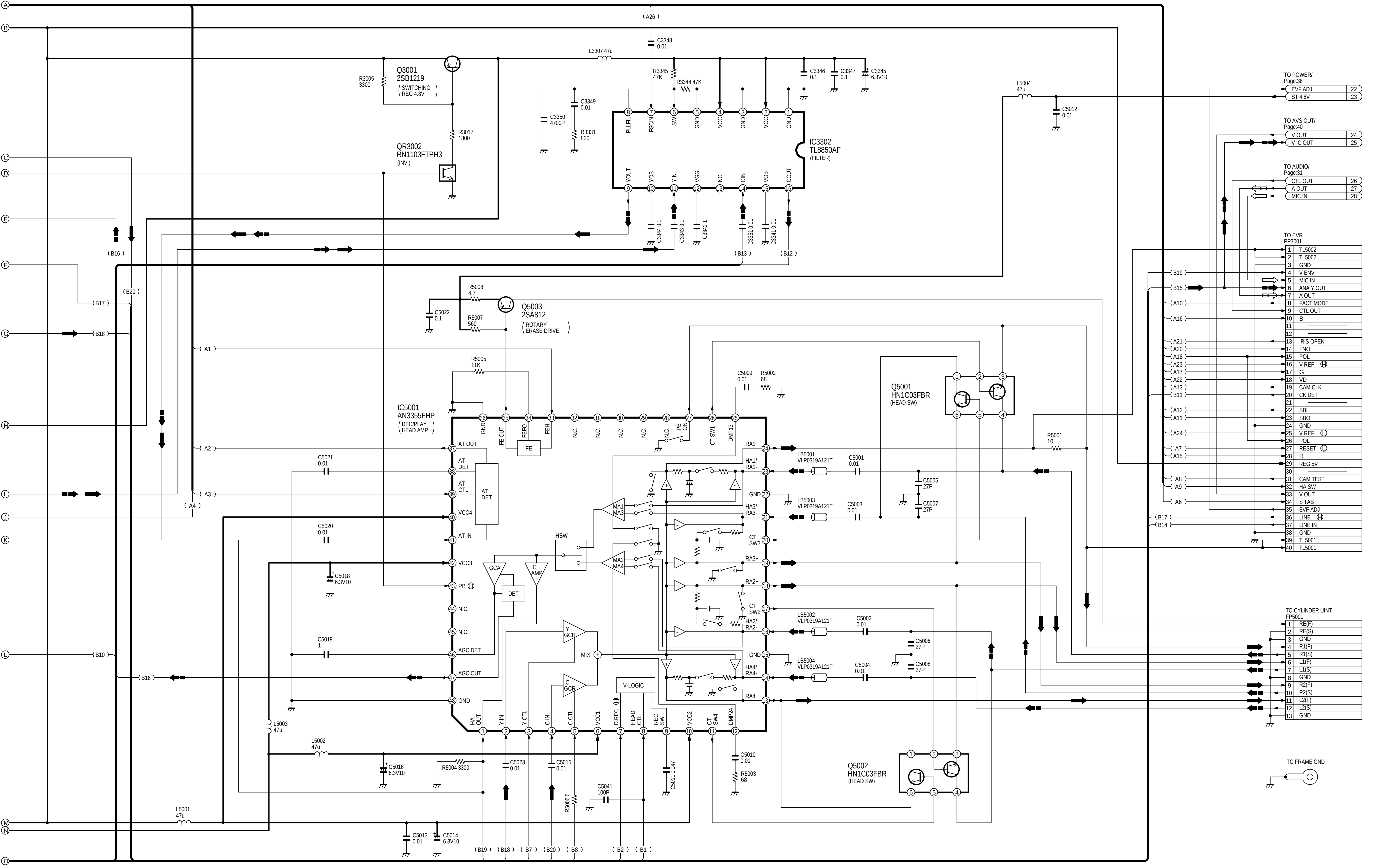

IC6003
(SYSTEM CONTROL & SERVO MICROPROCESSOR)
TO IC404-3
TO IC404-1
IC6002
(RTC/REG/RESET)
TO SYSTEM/CAMERA/SUB SERVO
NOREG
TO SYSTEM/VIDEO/AUDIO/MIC/CAMERA/SP DRIVE/AVS OUT
REG 4.8V
TO SP DRIVE
SPEAK 5V
TO VIDEO/AUDIO
ST 4.8V
TO EVF
EVF 5V
TO BACK LIGHT
BL 5V
TO LCD
LCD 5V
TO LCD
LCD 3V
TO VIDEO/CAMERA/AUDIO
REG 3V
TO SYSTEM
REG 3V
TO CAMERA
REG 3V
TO SUB SERVO
CAP VM
TO SUB SERVO
TRI WAVE
L1003
L1002
L1001
Q1001
(SWITCHING 4.8V)
L1014
L1014
L1004
QR1002
QR1701
QR1803
QR1801
BL CTL
MONI CTL
EVF CTL
Q1008
QR1003
Q1002
L1008
L1015
L1006
L1007
L1061
QR1061
BUFFER
Q1003
(SWITCHING 3V)
Q1061
(SWITCHING CAP VM)
ERROR VOLTAGE INPUT TERMINAL 1
ERROR VOLTAGE INPUT TERMINAL 2
ERROR VOLTAGE INPUT TERMINAL 3
IC1001(SWITCHING REGURATOR)
OUT1
IN1+
OUT2
IN2+
CT
VCC
OUT3
IN3+
PWM COMPARATOR &BUFFER
VOLTAGE CTL
REFERENCE VOLTAGE
ERROR AMP
TRI-WAVE OSC
CH1
CH2
CH3
VCC
IN1-
IN2-
V.REF
CTL2
IN3-
REAR CASE UNIT
NC
SW
4P SOCKET
LI-ION BATT.
LI BATT.
D
T
PS1003
TO IC6002-14
QR6009
QR1001
(SWITCHING NOREG)
Q6007
QR6012
BATT D
BATT T
BAT H
POWER ON H
BATT AD
B REF AD
CP ON H
OSC1
OSC2
X6001
EVF CTL
BL CTL
MONI CTL
TO CAMERA
CAM 15V
Q1808
Q1809
Q1808
TO CAMERA
CAM -8V
Q1812
TO LCD
MONI 12V
QR1802
Q1804
TO LCD
MONI -15V
Q1802
T1001
CL1003
Q1004
(POWER CONTROL)
VTRSBT
VTRSBO
VTRSBI
ADCS
TM1M
XON/H
CHGCNT
VDD
RESET
VDDH
VDDB
PVDD
AVDD
SCLK
SIO
CE
INTR
/VR2EN
/CHGEN
VRG1
/VDRG
OSC IN
OSC OUT
X6002
LITHIUM BATTERY
VSB
VMB
IC6010
5V REG
IC6009
RESET
CAS DOWN
FP6001
CASSETTE DOWN SW
SENSOR LED
Q6003,QR6005
LED DRIVE
SUPPLY PHOTO TR.
SENSOR LED
SPHT AD
TAKE-UP REEL PULSE
T REEL SENSOR
SUPPLY REEL PULSE
S REEL SENSOR
TO CAMERA
IC6008
(EEPROM)
E2BST
E2SBO
E2SBI
E2PCS
E2R/B
CK
SI
SO
CS
R/B
A
B


:CAPSTAN SERVO SPEED LOOP
:CAPSTAN SERVO PHASE LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP
SYSTEM CTL SECTION
SUB SERVO SECTION
IC2001 (CAP/CYL/LOADING MOTOR DRIVE)
VTR OP.U.
ZOOM
W
T
DEW SENSOR
REC
SEARCH+ FF
SEARCH- REW
FADE STOP
BLC PLAY
WB PAUSE
S/S
DATA/TITLE
EJECT
POWER/VCR/CAM
FP6004
ZM-AD
DEW-AD
SUBREC
KEY1
S/S
DATA/TITLE
EJECT SW
VTR PER
POWER SW
CAMERA OP.U.
MF/TRACKING
FP6002
VR1
VR2
CAMLED
VCRLED
EFFECT LED
SISLED
AUTOLED
KEY0
SET
MENU
PROG AE
STORE
COLOUR
MODE SW
FP6001
POS-COM
POS-1
POS-2
POS-3
FROM/TO VIDEO
H.SW
ENVGAIN
VORP
ENV AD
PB
EE
AUDIO MUTE
AUDIO FADE
DELAY REC
R ERASE ON
TO VIDEO
QR6050 (S TAB H :ON)
SAFETY TAB
SAFETY SW
CYLINDER DRIVE CLOCK
CYLINDER ON
CYLINDER FG
CYLINDER PG
CYLINDER TORQUE
CL6207
CL6206
CL6012
LINE
FACT MODE
REMOTE CTL
TALLY
HASW
LP
FROM/TO VIDEO
CAPSTAN R H /S M /F
CAPSTAN TORQUE
CL6014
Q6002
BUFFER
TORQUE LIMIT
CAP SW
QR6014
TO POWER
CAPSTAN FG
CL6208
FROM POWER
TRI WAVE
QR2001
TRIWAVE
CAP SW
AMP
CYL VM
FROM POWER
ACTIVE COIL SWITCHING LOGIC
SLOPE ADDITION
DRIVE TRANSISTOR CONTROL
FG AMP COMPARATOR
PG AMP COMPARATOR
DRIVE CLOCK
CYLINDER ON
FG
PG
CYLINDER EC
CAP VM
FROM POWER
DIRECTION LOGIC
DIRECTION DETECTOR
DIRECTION SWITCHING
DRIVE TRANSISTOR CONTROL
VCC
MATRIX
LIMITER
CAPSTAN R/S/F
CAPSTAN TORQUE
TORQUE LIMIT
FG AMP COMP.
FG
DD CYLINDER MOTOR
FP2002
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
FG
PG
M1
M2
M3
N
S
DD CAPSTAN MOTOR
FP2001
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
FG
HALL IC1
HALL IC2
HALL IC3
A
B


:VIDEO MAIN SIGNAL PATH IN REC MODE
:VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
FROM IC6001
LP H
EE H
FE
FROM SYSTEM CTL
RE ON H
HEAD R1
HEAD R2
HEAD L1
HEAD L2
FROM IC6001
H SW
FP5001
Q5001 (HEAD SW)
Q5002 (HEAD SW)
QR3309
QR3310
QR3308
QR3311
Q5003
ROTARY ERASE DRIVE
FE CTL
CT.SW
H.SW
H.A.SW
HEAD AMP
AGC
Y G.CTL
MIX
C G.CTL
LOGIC
H.SW
HA.SW
CT.SW1
CT.SW2
CT.SW3
CT.SW4
IC5001 (REC/PLAY HEAD AMP)
EE/VV/TRICK
SP/LP
AGC DET
RF AGC
TRAP
C3305,C3306 L3303
ENV DET
LIM
FM DEM
SUB LPF
HPF
NIL NLDE
MAIN LPF
FM MOD
FO DET
BPF
MAIN EMPH
W/D CLIP
NC
YNR
DOC
DET
AGC
HSS
CCD LPF
GCA
CLP
ATT
Y/C MIX
P.B:Y
REC:Y+C
MUTE
AMP
PHASE ROTATION
F.DET
SIDE LOCK
1/40
SUB BM
AFC
1/4
VCO
X2
VXO
ID
KILLER
FH
629KHz LPF
ACC DET
BURST UP
MAIN BM
ACC
4.43 BPF
BURST DOWN
COMB AMP
CCD BPF
NTSC PAL
MESECAM
PAL
SP
LP
EE
VV
Y+C
C
Y
IC3302
FILTER
ST 4.8V
REC C CTL
REC Y CTL
VTR SYNC
CAMERA Y IN
VIDEO OUT
ART
4.43MHz
VIDEO HEAD CTL
D REC H
FROM POWER
FROM CAMERA
TO CAMERA
FROM CAMERA
TO LCD/MONITOR
FROM IC6001
FROM CAMERA
FROM SYSTEM CTL


TO SYSTEM/ Page:34
114 VHS H
24 RE ON H
43 ENV DET
28 GAIN CTL
20 ART V
27 V HEAD CTL
25 D REC H
23 H SW
113 SCR H
26 LP H
111 EE H
21 S TAB
112 RESET L
45 CAM TEST
29 HA SW
44 FACT MODE
116 EVR SBO
115 EVR SBI
117 EVR CAM CL
22 PB H
CL3101
TO LCD/ Page:37
1 R
2 B
3 G
4 POL
TO LENS DRIVE/ Page:30
6 FNO
7 IRIS OPEN
TO CAMERA2/ Page:28
8 SYS VD
9 V REF H
10 V REF L
11 VTR 4.8V
12 CAM Y/C IN
13 L DATA
14 4.43MHz
15 VTR SYNC
TO CAMERA1/ Page:27
16 Y CTL
17 WVOL CRE
TO SYSTEM/ Page:34
122 P DOWN
TO POWER/ Page:38
18 Y IN1
19 REG 4.8V
20 REG 3V
21 ANA GND
QR3308 RN2103FTPH3 (SWITCHING)
QR3309 RN1104FTPH3 (INV.)
QR3311 RN2103FTPH3 (SWITCHING)
QR3310 RN1104FTPH3 (INV.)
QR3306 RN2103FTPH3 (AMP)
QR3307 RN1104FTPH3 (INV.)
QR3305 RN1104FTPH3 (INV.)
IC3301 AN3501NFBP (VIDEO SIGNAL PROCESSOR)
QR3301 RN2103FTPH3 (SWITCHING REG 4.8V)
QR3302 RN1103FTPH3 (INV.)
Q3301 2SA1774HRT4L (AMP)
Q3302 2SA1832FYTH3 (AMP)
Q3303 2SC4738FYTH3 (AMP)
Q3320 2SA1832FYTH3 (AMP)
D3303 MA111
D3304 MA111
D3305 MA111
CL3003
CL3302
CL3303
CL3304
R3301 1K
L3308 82u
C3303 27P
C3363 1000P
C3302 680P
R3308 3300
R3306 300
R3314 220
L3302 12u
C3310 18P
C3311 82P
R3312 3300
R3307 47K
C3307 0.01
L3303 22u
R3311 1500
C3305 68P
C3306 10P
R3310 300
C3309 0.1
C3308 6.3V10
L3304 47u
R3302 330
R3326 1K
C3314 0.027
L3309 470u
C3313 0.01
R3303 1K
R3334 100K
C3352 6.3V10
R3001 560
C3001 68P
R3003 2200
L3005 120u
C3002 22P
L3001 82u
C3007 470P
R3002 1K
R3004 680
C3315 0.47
R3320 2200
C3316 150P
C3304 22P
C3317 6.3V10
R3316 1K
R3318 220
C3354 820P
C3353 220P
C3318 1
C3319 0.01
C3320 0.47
C3321 0.01
C3322 6.3V10
R3352 10K
C3370 6.3V10
R3317 47K
L3320 33u
C3323 0.01
R3040 3600
C3324 6.3V10
R3042 1800
R3041 3300
R3346 2200
R3350 1200
C3380 39P
R3351 1K
L3305 47u
C3325 6.3V10
C3301 100P
C3358 0.1
R3327 240
C3336 0.01
C3337 1
R3332 2200
R3328 22K
C3338 1
C3339 0.01
C3355 0.01
C3356 0.47
R3319 10K
R3325 47K
C3357 0.01
C3335 0.01
C3334 6.3V10
L3306 47u
C3333 0.1
R3322 22K
C3331 0.1
C3330 0.1
C3332 0.022
C3329 0.01
C3328 0.1
C3361 0.1
C3362 0.1
C3323 150K
C3327 0.022
R3333 1K
R3309 1.2M
C3326 6.3V10
GND(A)
PB IN
LP/M
4.43MHz
M.DE.EM. EMP.C
M.DE.EM. EMP.E
PB NTSC OFF
YEXTPBFM
PAL/M
ROTARY
RFPEAKING/ SQPB
RF VCC
PS/IN
PS/N
PS/P
RF AGC OUT
RFGND
PB RF IN
ID
TUNER/L
REC FM IN
FO DET
TEST1
MOD OUT
NOR
CLAMP3
ME/W/C
ME/VVEDIT
NC
YNR DET
ARTV
TOCCD
V GND
FROMCCD
CLAMP4
V OUT
CLAMP2
CLAMP1
CCD AGCDET
NAVCC
NA MUTE IN
1/2 VCC
FVCO
VCO GND
ACC/CK /OUT
RECAFC/ PBAPC
2FSC OUT
SIDE LOCK DET
3.58XTAL
C GND
X TAL IN
RECAPC
CIN
VV/TRICK
PB C OUT
C VCC1
C VCXC2
MBDCDET
ACC DET
F ACC H
F ACC L
FROM COMB
CK DET
TOCOMB
SECDET1
SECDET2
SYNC D/T
HSS OUT
AGC DET
LINE IN
VREG
TUNORIN
Y VCC
EE ON
SLP ON
EE ON
FH TRAP
SP ON
LP/SLP ON
VV/ MUTE
AGC
DET
MUTE
(AUDIO)
(VIDEO)
SUB LPF
DEM
D-LIM
DO
ENV
DOP
TRAP1
TRAP2
RF AGC
Y/C MIX
CK OFF
2FSC
FO DET
W/D CLIP
MOD
CLAMP 3
4PHASE SELECT
DP
-1
1/4
SUB BM
1/40
ID
VCO
ROTARY
SIDE LOCK
FDET
APC
AFC
KILLER
LP/ TRICK
SP
629 LPF
BURST DOWN
4.43 BPF
ATT
BPF
X2
ACC
BM
BURST UP
VXO
FH VCO
NTSC →PAL
COMB AMP
CCD BPF
SECAM
PAL
FH PC
ACC DET
LIM
HPF
NLE NLDE
YNR MIX
MAIN LPF
CLAMP 1
YNR PROCESS
DO
CLAMP 2
GCA
CCD LPF
CLAMP 4
MUTE
HSS
FODET
(A5)
(A25)
(A14)
(B10)
(B11)
(B12)
(B13)
(B6)
(B14)
(B4)
(B5)
(B15)
(B9)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
1
2
3
4
5
6
7
8
9
10
11

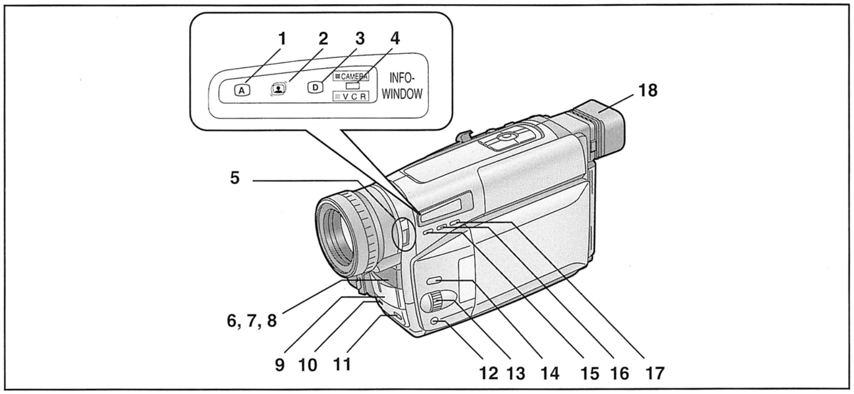
⇨ :AUDIO MAIN SIGNAL PATH IN REC MODE ▭⇨ :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE ➡ :VIDEO MAIN SIGNAL PATH IN REC MODE ▬➡ :VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
(A26)
C3348 0.01
Q3001 2SB1219 (SWITCHING REG 4.8V)
R3005 3300
R3017 1800
QR3002 RN1103FTPH3 (INV.)
L3307 47u
R3345 47K
R3344 47K
C3346 0.1
C3347 0.1
C3345 6.3V10
C3349 0.01
C3350 4700P
R3331 820
PLLFIL
FSCIN
SW
GND
VCC
GND
VCC
GND
IC3302 TL8850AF (FILTER)
YOUT
YOB
YIN
VGG
NC
CIN
VOB
COUT
C3344 0.1
C3343 0.1
C3342 1
C3351 0.01
C3341 0.01
(B13)
(B12)
(B16)
(B20)
(B17)
(B18)
L5004 47u
C5012 0.01
R5008 4.7
R5007 560
C5022 0.1
Q5003 2SA812 (ROTARY ERASE DRIVE)
(A1)
(A2)
(A3)
(A4)
R5005 11K
C5009 0.01
R5002 68
IC5001 AN3355FHP (REC/PLAY HEAD AMP)
GND
FE OUT
FEFO
FEH
FE
N.C.
PB ON
CT SW1
DMP13
AT OUT
AT DET
AT CTL
AT DET
VCC4
AT IN
VCC3
PB Ⓗ
N.C.
AGC DET
AGC OUT
GND
C5021 0.01
C5020 0.01
C5018 6.3V10
C5019 1
GCA
C AMP
DET
HSW
MA1 MA3
MA2 MA4
Y GCR
C GCR
MIX
V-LOGIC
HA OUT
Y IN
Y CTL
C IN
C CTL
VCC1
D.REC Ⓗ
HEAD CTL
REC SW
VCC2
CT SW4
DMP24
RA1+
HA1/ RA1-
GND
HA3/ RA3-
CT SW3
RA3+
RA2+
CT SW2
HA2/ RA2-
GND
HA4/ RA4-
RA4+
LB5001 VLP0319A121T
LB5003 VLP0319A121T
LB5002 VLP0319A121T
LB5004 VLP0319A121T
C5001 0.01
C5003 0.01
C5002 0.01
C5004 0.01
C5005 27P
C5007 27P
C5006 27P
C5008 27P
Q5001 HN1C03FBR (HEAD SW)
Q5002 HN1C03FBR (HEAD SW)
R5001 10
(B16)
(B10)
L5003 47u
L5002 47u
C5016 6.3V10
R5004 3300
C5023 0.01
C5015 0.01
C5041 100P
R5006 0
C5011 0.047
C5010 0.01
R5003 68
L5001 47u
C5013 0.01
C5014 6.3V10
(B19) (B18) (B7) (B20) (B8) (B2) (B1)
TO POWER/ Page:38
EVF ADJ 22
ST 4.8V 23
TO AVS OUT/ Page:40
V OUT 24
V IC OUT 25
TO AUDIO/ Page:31
CTL OUT 26
A OUT 27
MIC IN 28
TO EVR PP3001
1 TL5002
2 TL5002
3 GND
4 V ENV
5 MIC IN
6 ANA Y OUT
7 A OUT
8 FACT MODE
9 CTL OUT
10 B
11
12
13 IRIS OPEN
14 FNO
15 POL
16 V REF Ⓗ
17 G
18 VD
19 CAM CLK
20 CK DET
21
22 SBI
23 SBO
24 GND
25 V REF Ⓛ
26 POL
27 RESET Ⓛ
28 R
29 REG 5V
30
31 CAM TEST
32 HA SW
33 V OUT
34 S TAB
35 EVF ADJ
36 LINE Ⓗ
37 LINE IN
38 GND
39 TL5001
40 TL5001
(B19) (B15) (A10) (A16) (A21) (A20) (A18) (A23) (A17) (A22) (A13) (B11) (A12) (A11) (A24) (A7) (A15) (A8) (A9) (A6) (B17) (B14)
TO CYLINDER UINT FP5001
1 RE(F)
2 RE(S)
3 GND
4 R1(F)
5 R1(S)
6 L1(F)
7 L1(S)
8 GND
9 R2(F)
10 R2(S)
11 L2(F)
12 L2(S)
13 GND
TO FRAME GND
P
12 13 14 15 16 17 18 19 20 21 22

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.



Controls and Components

1 **Auto Mode Indication Lamp [Ⓐ]**

2 **Super Image Stabilizer Indication Lamp [👤]**

3 **Digital Effect Indication Lamp [Ⓓ]**

4 **Camera Mode Lamp [CAMERA]**
VCR Mode Lamp [VCR]
Camera Mode: The lamp lights red.
VCR Mode: The lamp lights green.

5 **0-Lux Recording Switch [0 LUX OFF/ON]**

6 **White Balance Sensor**

7 **Remote Control Sensor**

8 **Built-in Infra red Beam Emitters**

9 **Microphone**

10 **Tally Lamp**

11 **Fade Button [FADE]**

12 **Focus Button [FOCUS]**
Item Set Button [SET]
Tracking Button

13 **Multi-Function Dial [▲▼/MF/TRACKING]**

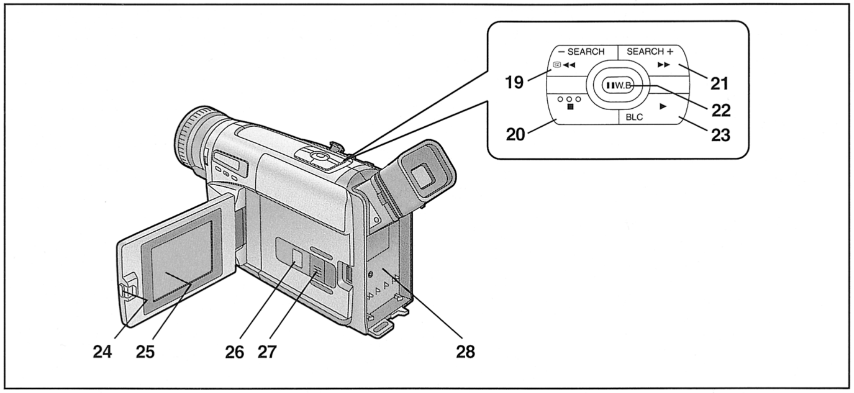
14 **Menu Button [MENU]**

15 **Auto Exposure Selector Button [PROG. AE]**

16 **Digital Image Store Button [STORE]**
Digital Image Superimpose Button [OFF/ON]

17 **Colour Selector Button for Digital Image [COLOUR]**

18 **Eyecup**



19 **Reverse Search Button [−SEARCH]**
Rewind/Review/High-Speed Rewind Button [◀◀]

Recording Check Button [↩]

20 **Stop Button [■]**

21 **Forward Search Button [SEARCH+]**
Fast Forward/Cue Button [▶▶]

22 **White Balance Button [W.B]**
Pause Button [❚❚]

23 **Playback Button [▶]**
Backlight Button [BLC]

24 **LCD Monitor Open Lever [▲OPEN]**

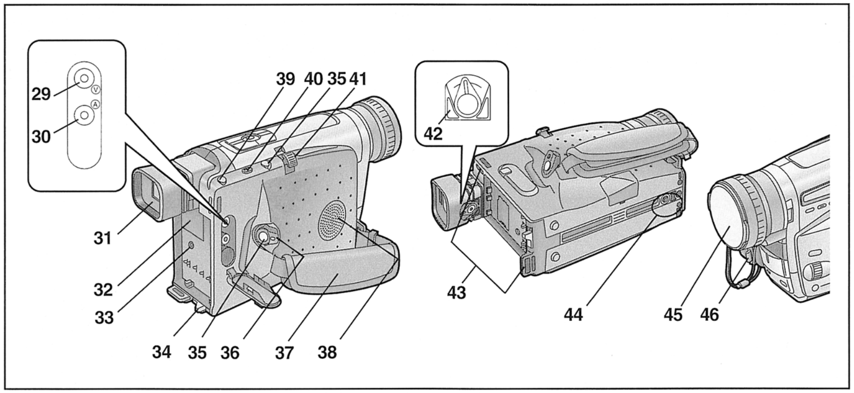
25 **LCD Monitor**

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the LCD Monitor screen. However, this is not a malfunction and does not affect the recorded picture.

26 **Cassette Compartment Window**

27 **Cassette Compartment Lock Button [LOCK]**

28 **Battery Holder**



29 **Video Output Socket [Ⓥ]**

30 **Audio Output Socket [Ⓐ]**

31 **Finder**

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the Finder screen, and flickering may occur. However, this is not a malfunction and does not affect the recorded picture.

32 **Cover of the Button-type Battery's Compartment [BACKUP BATTERY]**

33 **DC Input Socket [DC IN]**

34 **Battery Eject Lever [◁ BATTERY EJECT]**

35 **Recording Start/Stop Buttons**
Use either of these buttons depending on the recording angle.

36 **Off/On Mode Selector Switch [CAMERA/OFF/VCR]**

37 **Grip Belt**

38 **Speaker**

39 **Cassette Eject Buttons [⏏ EJECT]**

40 **Date/Time/Title Button [DATE/TITLE]**

41 **Zoom Lever [W/T]**
Volume Adjustment Lever [−VOL+]

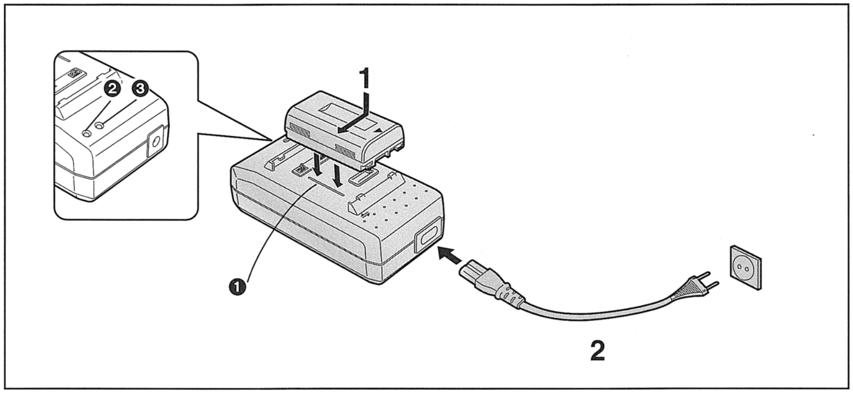
42 **Eyepiece Corrector Lever**

43 **Shoulder Strap Holders**

44 **Tripod Receptacle**

45 **Lens Cap**

46 **Lens Cap Holder**



Charging the Battery

Charge the Battery before using it.

1 Attach the Battery.

- ●Align the Battery with line ❶ and push it in the direction of the arrow while holding it down.

2 Securely connect the AC Mains Lead to the AC Adaptor and an AC Mains Socket.

- ●The [POWER] Lamp ❷ lights and then the [CHARGE] Lamp ❸ flashes and charging starts.
- ●If the [CHARGE] Lamp ❸ does not flash even though the Battery is attached, remove the Battery and then re-attach it.

■ Charging Lamp [CHARGE]

Flashing:	During charging
Lit:	The Battery can already be used to operate the Movie Camera but is not yet fully charged. (Approx. 30-minute battery charge)
Off:	The Battery is fully charged.

■ Removing the Battery

Slide it in the opposite direction of that indicated in step 1 above.

- ●Charge the Battery at a room temperature between 10°C and 30°C.
- ●When charging, do not connect the DC Input Lead to the AC Adaptor.
- ●During recording or charging, the Battery becomes warm. However, this is normal.
- ●If you charge the Battery when it is not yet discharged, the [CHARGE] Lamp ❸ may flash briefly and then go out. This indicates that the Battery is fully charged. Therefore, this is not an indication of a malfunction.

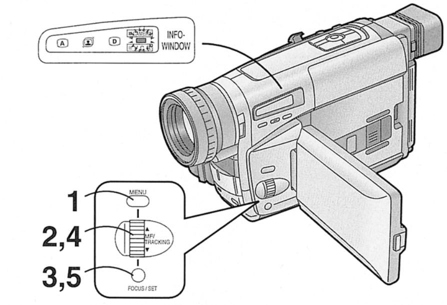
■ Charging Time and Maximum Continuous Recording Time in the Manual Recording Mode

Battery Model No.	Charging Time for a Full Charge	Max. Continuous Recording Time	
		①	②
CGR-V610 (Supplied)	80 min.	80 min.	120 min.
CGR-V620	145 min.	160 min.	240 min.
CGR-V816	310 min.	320 min.	480 min.

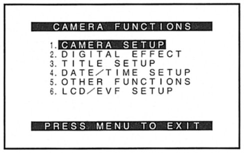
Battery Model No.	Approx. 30-Minute Charge	Max. Continuous Recording Time	
		①	②
CGR-V610 (Supplied)	30 min.	35 min.	50 min.
CGR-V620			
CGR-V816			

①: Using LCD Monitor ②: Using Finder
(The times shown in the above charts are approximations.)

Maximum Continuous Recording Time means the duration of continuous recording performed at an ambient temperature of 25°C and 60% relative humidity. In actual recording, however, the use of the zoom and other functions increases the power consumption, and higher or lower temperatures reduce the Battery's ability to generate electricity. Therefore, the actual recording time per Battery may be approximately 30%–50% shorter than listed above.

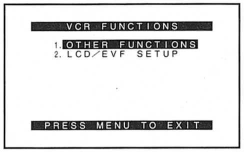


❶



CAMERA FUNCTIONS
1. CAMERA SETUP
2. DIGITAL EFFECT
3. TITLE SETUP
4. DATE/TIME SETUP
5. OTHER FUNCTIONS
6. LCD/EVF SETUP
PRESS MENU TO EXIT

❷



VCR FUNCTIONS
1. OTHER FUNCTIONS
2. LCD/EVF SETUP
PRESS MENU TO EXIT

Using the Menus

This Movie Camera displays the settings of various functions in menus to make it easy to select the desired functions and settings.

1 Press the [MENU] Button.

When you press this button while the [CAMERA] Lamp is lit in red, the Camera Mode Menu ❶ appears.
When you press this button while the [VCR] Lamp is lit in green, the VCR Mode Menu ❷ appears.

2 Turn the [▲▼] Dial to select the desired sub-menu.

Turning the [▲▼] Dial changes the highlighted item.

3 Press the [SET] Button to display the selected sub-menu.

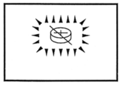
4 Turn the [▲▼] Dial to select the item to be set.

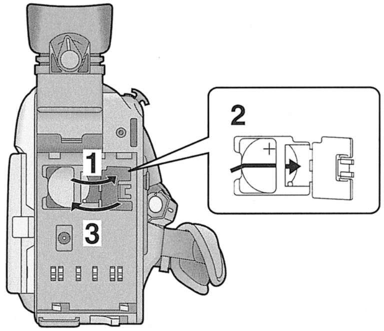
5 Press the [SET] Button to set the selected item to the desired mode.

Exiting the Menu

Press the [MENU] Button again.

- ●The method for making settings on the [DATE/TIME SETUP] Sub-Menu and [LCD/EVF SETUP] Sub-Menu differs silghtly from that of other Sub-Menus.
- ●You can display the menu during playback, but not during recording. Also, it is possible to start playback while the menu is displayed, but if you start recording, the displayed menu disappears.
- ●The settings that you have selected on the menus are maintained when you turn the Movie Camera off. However, if you disconnect the power supply unit (Battery or AC Adaptor) from the Movie Camera before turning it off, the selected settings may not be maintained.





Inserting the Button-type Battery

Before setting the date and time, insert the button-type battery (supplied).

1 **Open the [BACKUP BATTERY] Cover.**

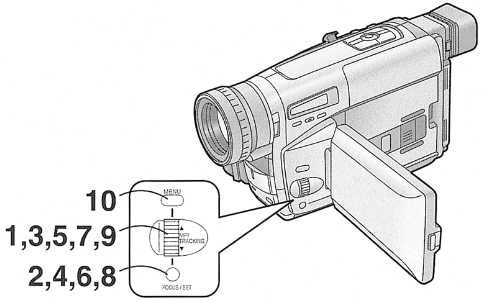
2 **Insert the button-type battery so that its (+) side is visible.**

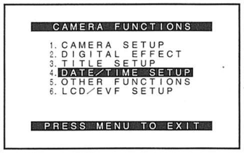
3 **Close the [BACKUP BATTERY] Cover.**

- Before inserting or removing the button-type battery, be sure to set the [CAMERA/OFF/VCR] Switch to [OFF].
- When the button-type battery is exhausted, the [⊗] Indication flashes. In this case, replace it with a new CR2025 battery.
  (The life of the battery is about 3 years.)
- To make it easier to remove the button-type battery, use a pointed object.
- When you remove the button-type battery, be careful not to drop it.
- **Keep the button-type battery out of the reach of children.**
- Make sure you insert the battery with its poles correctly aligned.
- The internal clock works even when the Movie Camera is turned off, and it consumes power from the button-type battery.

CAUTION

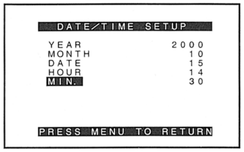
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.





```
CAMERA FUNCTIONS
1. CAMERA SETUP
2. DIGITAL EFFECT
3. TITLE SETUP
4. DATE/TIME SETUP
5. OTHER FUNCTIONS
6. LCD/EVF SETUP

PRESS MENU TO EXIT
```



```
DATE/TIME SETUP
YEAR          2000
MONTH           10
DATE            15
HOUR            14
MIN.            30

PRESS MENU TO RETURN
```

Setting the Date and Time

If you select the [DATE/TIME SETUP] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu, the menu shown above appears.
The initial setting of date and time is 0:00, 1st January, 2000.

For example: To set the clock to 15th October 2000, 14:30.

1 **Turn the [▲▼] Dial to set to [2000].**
The years change in the following order:
...1990...1991...2000...2089...1990...

2 **Press the [SET] Button to select [MONTH].**

3 **Turn the [▲▼] Dial to set to [10].**

4 **Press the [SET] Button to select [DATE].**

5 **Turn the [▲▼] Dial to set to [15].**

6 **Press the [SET] Button to select [HOUR].**

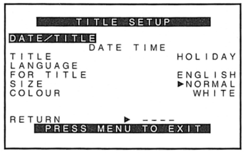
7 **Turn the [▲▼] Dial to set to [14].**

8 **Press the [SET] Button to select [MIN.].**

9 **Turn the [▲▼] Dial to set to [30].**

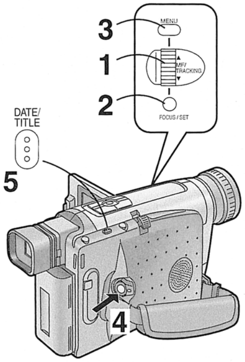
10 **Press the [MENU] Button to finish the date and time setting.**
The operation of the clock starts from [00] seconds.
Pressing the button one more time makes the menu disappear.

- If you select the [DATE/TIME SETUP] Sub-Menu when the button-type battery is not inserted into the Movie Camera or is exhausted, the Main-Menu disappears and the [⊗] Indication flashes instead. Insert a new button-type battery and then set the date and time again.
- As the Movie Camera's built-in clock is subject to slight imprecision, be sure to check the indicated time before recording.
- The clock employs the 24-hour system.



```
TITLE SETUP
DATE/TITLE
               DATE TIME
TITLE                  HOLIDAY
LANGUAGE
FOR TITLE              ENGLISH
SIZE                   ▶NORMAL
COLOUR                   WHITE

RETURN             ▶ ----
PRESS MENU TO EXIT
```



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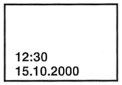

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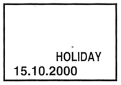

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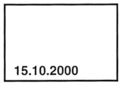

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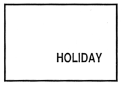

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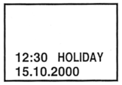

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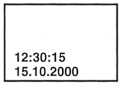


Recording with the Time and/or Date Superimposed in the Picture

After displaying the [TITLE SETUP] Sub-Menu...

1 **Turn the [▲▼] Dial to select [DATE/TITLE].**

2 **Press the [SET] Button to select the desired indication.**
- The indications change in the order ❶ to ❻.
  ❶ Date and Time ⟶ ❷ Date ⟶
  ❸ Date, Time and Title ⟶ ❹ Date and Title ⟶
  ❺ Title ⟶ ❻ Date and Time with seconds ⟶
- If the button-type battery for the built-in clock is not inserted into the Movie Camera or is exhausted, only the title is displayed.

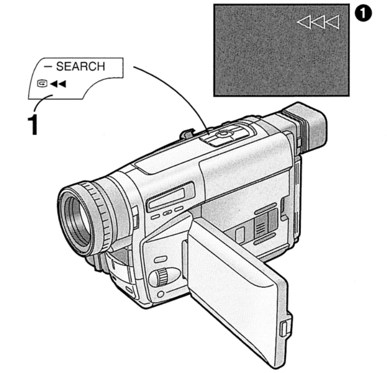
3 **Press the [MENU] Button to exit the menu.**
- The selected Date/Time/Title Indication appears.

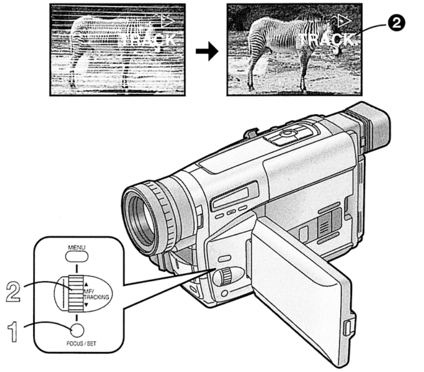
4 **Press the Recording Start/Stop Button to start recording.**

■ **Deleting the Date/Time/Title Indication**

5 **During recording or when the Movie Camera is in the Recording Pause Mode, press the [DATE/TITLE] Button to make the Date/Time/Title Indication disappear.**

- After turning the Movie Camera off and then on again, the previously selected Date/Time/Title Indication is no longer displayed. To make it appear again, press the [DATE/TITLE] Button once.
- Be sure to turn the Movie Camera off before removing the Battery of disconnecting the AC Adaptor.
  Disconnecting the power supply while the Movie Camera is on erases the Date/Time/Title Indication stored in memory.





High-Speed Rewinding

1 Press the [◀◀] Button for more than 1 second in the Stop Mode.
- The [◁◁◁] Indication ❶ appears.
- During High-Speed Rewinding, the tape winding sound is louder.
- When rewinding the tape to the beginning, the Movie Camera automatically changes over from the High-Speed Rewinding Mode to the Rewinding Mode near the end of the tape, and it switches over to the Stop Mode at the end of the tape.
- If you press the [■] Button during High-Speed Rewinding, it takes several seconds before the tape is stopped, in order to protect the tape from damage.
- When using the Remote Controller, press the [◀◀] Button for more than 3 seconds.
- During High-Speed Rewinding, the Tape Counter shows [0:00.00].

Eliminating Picture Distortions (Manual Tracking Adjustment)

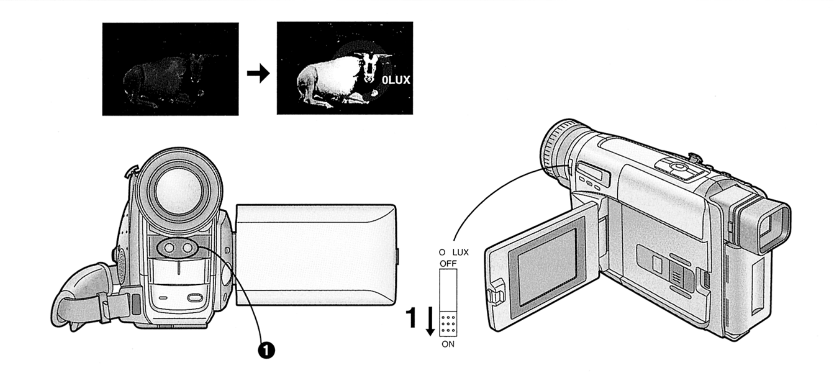
This Movie Camera adjusts the tracking automatically. With certain cassettes, however, the tracking adjustment may not be precise. In this case, adjust the tracking manually.

1 Press the [FOCUS/SET] Button briefly during playback.
- The [TRACK.] Indication ❷ appears.

2 Turn the [TRACKING] Dial to adjust the tracking.

- The Tracking Adjustment Function is automatically cancelled when the [TRACKING] Dial is not turned for 5 seconds.
- It may not be possible to remove the noise bars completely.
- It is not possible to adjust the tracking when a menu is displayed.
- If you eject the cassette after adjusting the tracking, the adjusted setting is cancelled.

Returning to the Auto Tracking Mode
Press [FOCUS/SET] Button for more than 2 seconds during playback.



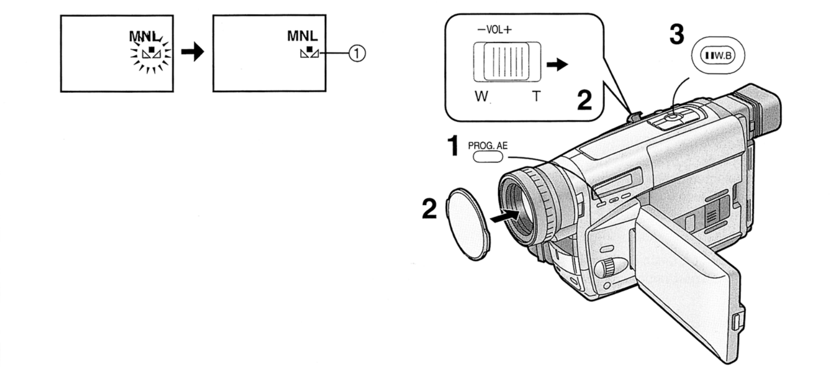
Recording in Dark Places Without Any Illumination (0 Lux Night View Function)

This function is convenient when you want to record at night in places without any illumination, for example for observing the behaviour of nocturnal animals, etc. In this mode, the Movie Camera emits infrared rays which makes it possible to record subjects that are invisible to the naked eye.

1 Set the [0 LUX OFF/ON] Switch to [ON] to make the [0LUX] Indication appear.
- The built-in Infra-red Beam Emitters ❶ light. Be careful not to cover them with your hand when recording.

- Do not use the 0 Lux Night View Function in brightly lit places and never aim the Movie Camera against the sun, as this could cause irreparable damage.
- The playback picture of scenes recorded with the 0 Lux Night View Function will be in black and white.
- If you change the setting of the [0 LUX OFF/ON] Switch during recording, a switching noise is also recorded.
- When recording with the 0 Lux Night View Function, it is not possible to adjust the white balance manually or to cancel the manually adjusted white balance setting.
- It is not possible to use any of the Programme AE Modes when the 0 Lux Night View Mode is activated.
- When using the 0 Lux Night View Function, the subject should be within 3 metres from the Movie Camera.
- When the automatic focusing is not precise, adjust the focus manually.
- If you do not want the Tally Lamp to light during recording using the 0 Lux Night View Function, set [TALLY LAMP] on the [CAMERA SETUP] Sub-Menu to [OFF].
- As the iris is fully opened in the 0 Lux Night View Mode, subjects in white or other light colours may be recorded whitish, blurred and with weak contrast.

Cancelling the 0 Lux Night View Function
Set the [0 LUX OFF/ON] Switch to [OFF] to make the [0LUX] Indication disappear.



Recording with Manual White Balance Adjustment

With this Movie Camera, you can also adjust the white balance manually.
Use this mode for special subjects and recording conditions, such as listed, for which the Full Auto Mode is not suitable, and for light sources outside the range ❶.
Use it also when you want to manually adjust the white balance for each new scene as professionals do.

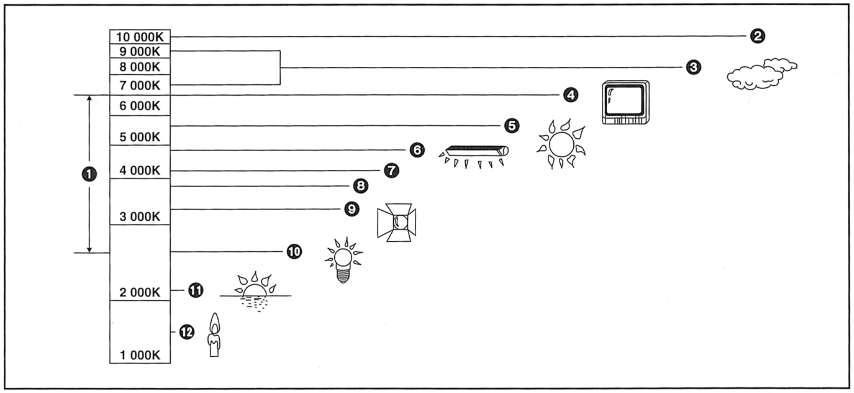
1 Press the [PROG. AE] Button repeatedly until an indication other than [AUTO] appears.

2 Attach the White Lens Cap and zoom in until the entire screen is white.

3 Aim the Movie Camera at the subject that you want to record and then keep the [W.B] Button pressed until the [◪] Indication ① stops flashing and remains lit.
- When the Sepia Mode, Black & White Mode or 0 Lux Night View Mode is used, it is not possible to manually adjust the white balance. Also, if the white balance was manually adjusted, it cannot be cancelled, even if you press the [W.B] Button.

In the following cases, the [◪] Indication flashes:
- During manual adjustment of the white balance. (If the surroundings are dark and the white balance cannot be adjusted, the [◪] Indication keeps flashing.)
- When the previously set white balance setting is maintained.
- When you are trying to adjust the white balance in the digital zoom range (21×–220×). In this case, first adjust the white balance in the optical zoom range (1×–20×) and then zoom back to within the Digital Zoom Mode.

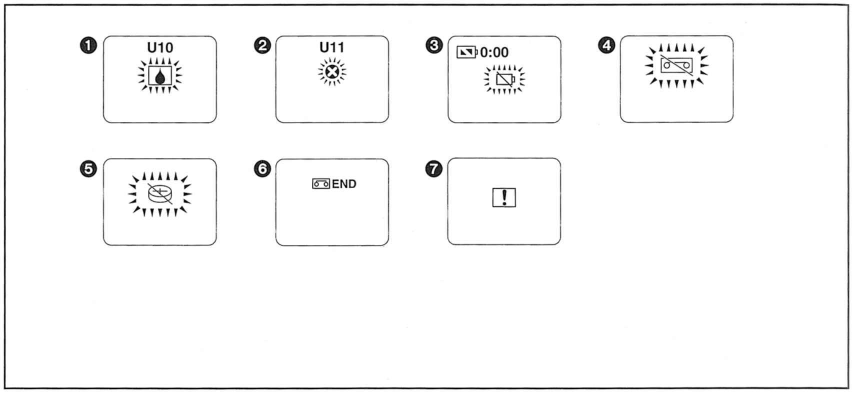
Cancelling the Manual White Balance Mode
Press the [W.B] Button once. Or, press the [PROG. AE] Button repeatedly until the [AUTO] Indication appears.



Colour Temperature and White Balance Adjustment

Every light source has its own colour temperature measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness.
The range ① indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually. Also, additional lighting may be necessary.

① Control range of this Movie Camera's Auto White Balance Adjustment Mode
② Blue sky
③ Cloudy sky (Rain)
④ TV screen
⑤ Sunlight
⑥ White fluorescent lamp
⑦ 2 hours after sunrise or before sunset
⑧ 1 hour after sunrise or before sunset
⑨ Halogen light bulb
⑩ Incandescent light bulb
⑪ Sunrise or sunset
⑫ Candlelight



Indications

■ Warning/Alarm Indications

① Condensation

② Video Head Clogging

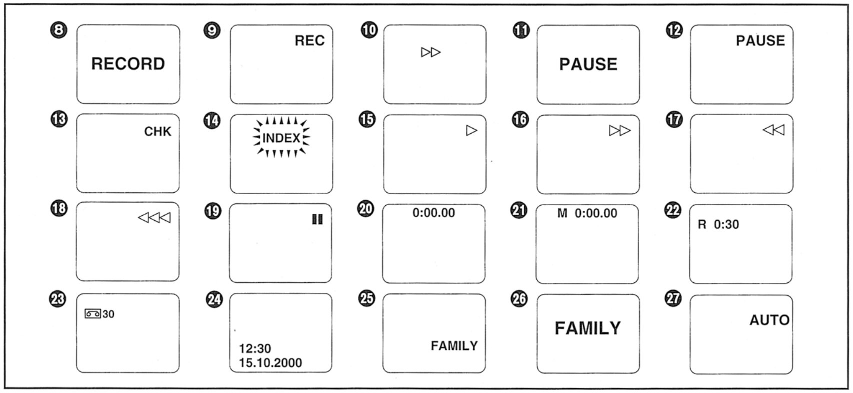
③ Remaining Battery Power
When the remaining battery power is used up, the Movie Camera automatically switches off. Replace the Battery with a fully charged one.

④ Cassette
No cassette is inserted. Or the tab of the inserted cassette is broken out. Insert a cassette with an intact tab.

⑤ Button-type Battery
The button-type Battery is exhausted. Replace it with a new one.

⑥ End of the Tape
When the tape has reached its end, this indication appears. Insert a new cassette.

⑦ General Warning/Alarm Indication
If you record with the LCD Monitor facing forward using the Mirror Mode, this indication appears instead of the actual Warning/Alarm Indication.



■ Recording and Playback Indications

⑧ Recording Mode (large indication)

⑨ Recording Mode (small indication)

⑩ Tape Movement during Recording

⑪ Recording Pause Mode (large indication)

⑫ Recording Pause Mode (small indication)

⑬ Recording Check Mode

⑭ Index Signal Recording Mode
An index signal is automatically recorded (and the [INDEX] Indication flashes briefly while it is being recorded) when you:
- Start recording after connecting the AC Adaptor or attaching the Battery.
- Start recording after inserting a cassette.
- Start recording after changing from the VCR to the Camera Mode.

The recording of index signals makes it possible to use the VHS Index Search or Intro Scan Function during playback on a VCR equipped with these functions.
(Refer to the operating instructions of your VCR.)

**⑮ Playback Mode
Camera Search Mode**

⑯ Fast Forward/Cue Mode

**⑰ Rewind/Review Mode
Camera Search Mode**

⑱ High-Speed Rewind Mode

⑲ Still Playback Mode

⑳ Elapsed Tape Time
When the tape is rewound further than the position [0:00.00], the minus sign [–] appears in front of the Elapsed Tape Time Indication.

㉑ Elapsed Tape Time with activated Memory Stop Function

㉒ Remaining Tape Time

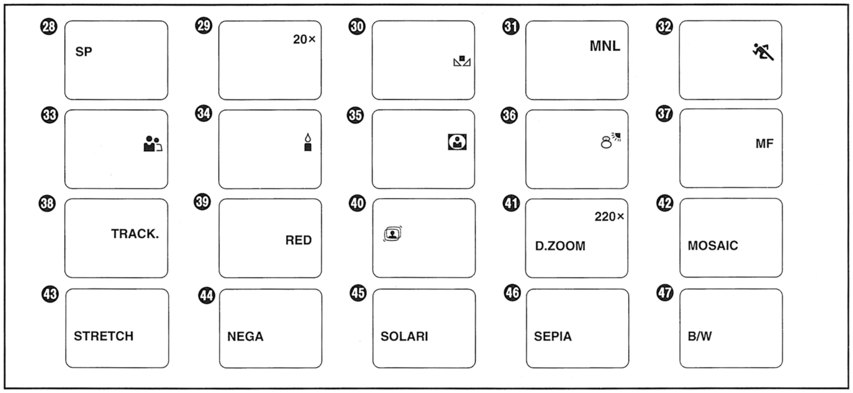
㉓ Tape Length

㉔ Date and Time

㉕ Title (small indication)

㉖ Title (large indication)

㉗ Full Auto Mode



㉘ Recording Speed Mode

㉙ Zoom Magnification

㉚ Manual White Balance Mode

㉛ Manual Recording Mode

㉜ Sports Mode

㉝ Portrait Mode

㉞ Low Light Mode

㉟ Spotlight Mode

㊱ Surf & Snow Mode

㊲ Manual Focus Mode

㊳ Tracking Adjustment Mode

㊴ Colour Indication for Digital Image

㊵ Super Image Stabilizer Mode

㊶ Digital Zoom Mode

㊷ Mosaic Mode

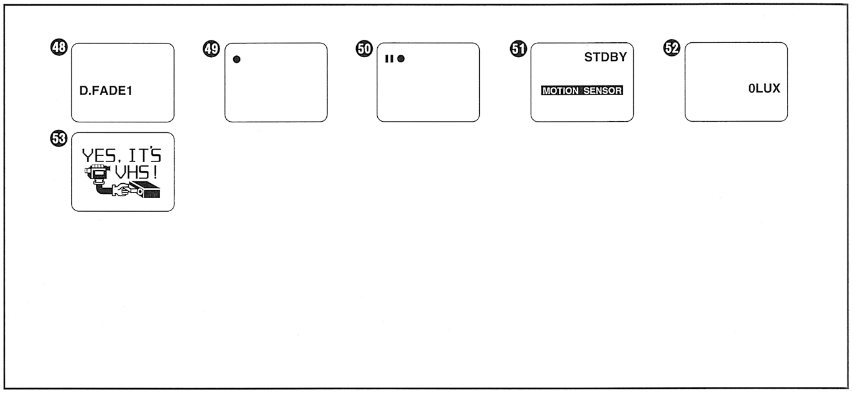
㊸ Stretch Mode

㊹ Nega Mode

㊺ Solarisation Mode

㊻ Sepia Mode

㊼ Black-and-White Mode



㊽ Digital Fade Mode

㊾ Recording Mode

㊿ Recording Pause Mode

- The above indications ㊾ to ㊿ are only displayed when recording in the Mirror Mode.

(51) Motion-Sensor-Controlled Recording Function Stand-by Mode

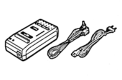
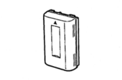
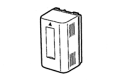
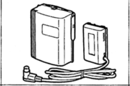
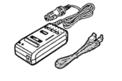
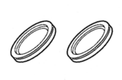
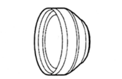
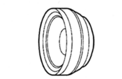
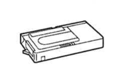
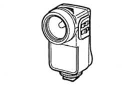
(52) 0 Lux Night View Mode

(53) Demonstration Mode

Demonstration Mode

When the Movie Camera is turned on and in the Camera Mode without any cassette inserted, and you leave it for 10 minutes without activating any function, it automatically switches over to the Demonstration Mode which demonstrates its many functions.

- You can also start the Demonstration Mode by setting [DEMO MODE] on the [OTHER FUNCTIONS] Sub-Menu of the [CAMERA FUNCTIONS] Main-Menu to [ON] and then exiting the menu.
- Pressing a button or displaying a menu temporarily suspends the Demonstration Mode. However, if you leave the Movie Camera in this condition without activating any function for more than approximately 10 minutes, the Demonstration Mode resumes.
- If you do not want the Demonstration Mode to be activated, set [DEMO MODE] on the menu to [OFF].
- If you set the [CAMERA/OFF/VCR] Switch to [CAMERA] while pressing the [▶] Button, [DEMO MODE] on the menu is automatically set to [ON] and the Demonstration Mode starts immediately.
- If you set the [CAMERA/OFF/VCR] Switch to [CAMERA] while pressing the [■] Button, [DEMO MODE] is automatically set to [OFF].

1. VW-AS7E 	2. CGR-V610 	3. CGR-V620 	4. CGR-V816 	5. VW-KBC7E 	6. VW-LF43WE 
7. VW-LT4314WE 	8. VW-LW4307WE 	9. VZ-CT55E 	10. VW-TCA7E 	11. VW-VT1E/B 	12. VZ-LDR10E 
13. VW-SK11E 					

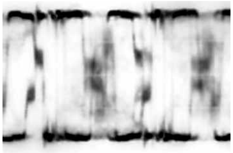
Optional Accessories

1. AC Adaptor
2. Battery Pack (Lithium-Ion)
3. Battery Pack (Lithium-Ion)
4. Battery Pack (Lithium-Ion)
5. Car Battery Charger
6. Filter Kit
7. Tele Conversion Lens
8. Wide Conversion Lens
9. Tripod
10. Cassette Adaptor
11. Video Titler
12. IR/Video DC Light (Halogen & Infra-red)
    (It requires the Shoe Adaptor for attaching to the Movie Camera.)
13. Shoe Adaptor (for attaching the IR/Video DC Light)

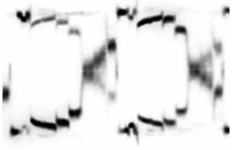
Some accessories are not available in some countries.

	INITIAL/LOGO	ABBREVIATIONS
A	A.TR	Auto Tracking
	ABSF	Focus Encoder Input
	ACI	Analog Channel Cording IC
	ADCLK	Analogue Digital Clock
	ADCNT	Analogue Digital Control
	ADCS	Analogue Digital Chip Select
	AE	Auto Expose
	AECNT	Auto Expose Control
	AEIRQ	Auto Expose Interrupt Request
	AF	Auto Focus
	AFADE	Audio Fade
	AFCS	Auto Focus Chip Select
	AGC	Automatic Gain Control
	AGCCNT	Automatic Gain Control Control
	ALCCNT	Auto Level Control Control
	ALCMAIN	Auto Level Control Drive
	AMUT	Audio Mute
	AORP	Audio Overlap Pulse
	APCNT	Aperture Control
	ARTV	Artifical Vertical Sync
	ATF	Automatic Track Finding
	ATR	Auto Tracking
	AUX	Auxiliary
	AVDD	Analogue VDD
	AVSS	Analogue Ground
	AWTB	Auto White Balance B-Y
	AWTR	Auto White Balance R-Y
B	B-Y KB	B-Y Carrier Balance
	BACK	Back-up
	BATT	Battery
	BCBM(B-Y)	B-Y Carrier Balance
	BCBM(R-Y)	R-Y Carrier Balance
	BF	Burst Flag
	BFND	Burst Flag Pulse
	BFA	Burst Flug for Encoder
	BFO/BFI	Burst Flug Input/Output
	BL	Back Light
	BLC 0, I	Back Light Y Control Out, In
	BLDI/O	Back Light Drive Input / Output
	BLK	Blanking Pulse
	BLKA	Blanking for Encoder
	BLKI/O	Blanking Pulse In/Out
	BM	Balance Modulator
	BUF	Buffer
C	C CNT	Colour Control
	C/N	Carrier/Noise
	CAM	Camera
	CAM T	Camera Test
	CAM TL	Capstan Trque Limit
	CAMCLK	Camera Clock
	CAP R/F/S	Capstan Revers(H)/Stop(M)/Forward(L)
	CAPSTP H	Capstan Stop Flag (Stop High)
	CAPVM	Capstan Motor Current
	CASDWN	Cassette Down
	CBLK	Composite Blanking Pulse
	CCD	Charge Coupled Devise
	CCW	Counter-Clockwise
	CDS	Correlate Double Sampling Signal
	CDS OUT	CDS Output Signal
	CH	Charge
	CH1	Channel 1 (Odd Field)
	CHR	Character
	CHR MIX	Character Mix
	CI, CO	Buffer In/Out
	CK	Clock
	CL / CLK	Clock
	CMODE	Camera Mode
	CNR	Chrominance Noise Reduction
	CO	Control Out
	CO0-7	Chrominance Output 0 to 7 (Digital)
	COM	Common
	CP	Clamp Pulse
	CPOB	Clamp Pulse for Optical Blanking
	CPS	Composite Signal
	CRST	Camera Reset
	CS	Chip Select
	CS 0-7	Chrominance Signal Out 0-7
	CSEL	Clock Phase Select
	CSI 0-7	Chrominance Signal In 0-7
	CTSW	Crosstalk Switch
	CW	Clockwise
	CYLVM	Cylinder Motor Current or Power
D	D MODE	Digital Mode Switch Signal
	DAC	Digital Analog Convertor
	DAC	Digital Analogue Converter
	DB0-7	Data 0-7
	DCLR	Digital Clear
	DCP	Digital Clamp Pulse
	DICLK	Digital Clock
	DIS	Digital Image Stabilizer
D	DISCS	Dis Chip Select
	DISP	Display
	DL	Delay Line
	DL	Delay Line
	DOBLK	Bit Clock (to D/A Converter)
	DOCTL	Data Output Control
	DODAT	Serial Data (to D/A Converter)
	DRK	Dark
	DS	Double Sampling Pulse
	DS1, 2	Double Sampling Pulse
	DSP	Digital Signal Processor
	DSP	Digital Signal Processor
	DVDD	Digital VDD
	DVSS	Digital Ground
	DZ	Digital Zoom
E	E Snap	Electric Snap Shot
	E2P	EEPROM
	EC	Error Control
	EC	Torque Control
	ECM	Electric Condencer Mic
	EE CS	EEPROM Chip Select
	EEPROM	Electric Erasable Programable Read Only Memory
	EIS	Electric Image Stabilizer
	ENV	Enverope
	EQ	Equalizer
	EVF	Electric View Finder
	EXT DC	External DC (AC Adaptor)
	EZOOM	Electric Zoom
F	F	Far (Focus)
	FB	Feed Back
	FCK	Clock
	FENC	Focus Encoder
	FM	Field Memory
	FM0-7	Field Memory 0 - 7
	FMDIR	Focus Motor Direction
	FMOEM	Field Memory Enable
	FMOEO	Field Memory Enable
	FMT	Focus Motor
	FMT1-4	Focus Motor Terminal 1-4
	FNO	F Value
	FR	Capstan Reverse High
G	GCNT	Gain Control
	GSW	Ground for Switching Power
H	H1,2	H. CCD Drive Pulse
	HASW	HEAD AMP SW
	HBRST	High Bright Set
	HCLR	High Clear
	HCP	Shift Clock for Horizontal Drive
	HD	Horizontal Drive Pulse
	HDTV	High Definition TV
	HEX	Hexadecimal
	HLT	High Bright Signal
	HSS	Horizontal Sinc Signal
	HSS	High Speed Shutter
I	INTER	Interval Recording
	INV	Inverter
	IOU	R-Y Analogue Signal Output
	IOU	Analogue R Signal Output Terminal
	IOV	B-Y Analogue Signal Output
	IOV	Analogue B Signal Output Terminal
	IOY	Analogue Y Signal Output Terminal
	IRDET	Infrared Rays Detection
	IRIS/SH	Iris / Shutter Control
	IRQ	Interrupt Request
K	KANDO	Digital Gain Up
	KB	Carrier Balance
	KND	Digital Gain Up
	KNEE	Knee Corection (γ Control)
L	LCD	Liquid Crystal Display
	LD	Load Pulse
	LDD	Liquid Direct Drive
	LEDCNT	LED Control
	LI-BATT	Lithium Battery
	LOAD	Loading
	LSB	Least Significant Bit
	LVL	LPF Switch for Auto Focus
M	MD	Modulation
	MENB	Focus Motor Enable
	MFF	Manual Focus Far
	MFN	Manual Focus Near
	MIX N.R.D.	Non Rec Data Mix
	MRST	Focus Motor Reset
	MSB	Most Signal Bit
	MVSYNC	Monitor Vertical Sync Signal

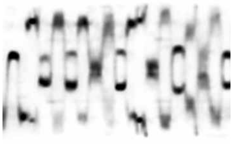
	INITIAL/LOGO	ABBREVIATIONS
N	N	Near (Focus)
	N/F	Near/Far Focus
	N/P	NTSC/PAL
	NC	No Connection
	NDE	Non Liner De-Emphasis
	NLE	Non Liner Emphasis
	NR	Noise Reduction
	NRD	Non Rec Data
	NRD BLK	No Rec Data Blanking
	NRD CLK	No Rec Data Clock
	NRDBLK	Non Rec Data Blanking
	NRE	Read Enable Input (Low Active)
	NWE	Write Enable (Low Active)
O	OB	Optical Black
	OBCNT	Optical Black Control
	OE	Output Enable
	OFS	Offset
	OP	Operation AMP Output
	OSD	ON Screen Display
	OVL	Overlap Pulse
	OZ	Optical Zoom
P	PAJ	Picture Control
	PB1-3	PNP Base 1-3
	PBCTL	Play Back Control
	PBCTL	Pre-Branking Control
	PBH	Head Amp Switch
	PBLK	Pre-Blanking (Pulse)
	PC1-3	PNP Corrector 1-3
	PCBM	Carrier Balance
	PCH	Phase Compensator (Hole AMP)
	PCI	Phase Compensator (Current)
	PCO	Phase Compensator Out
	PCS	Switching Power Control
	PCV	Phase Compensator (Voltage)
	PE	PNP Emitter
	PED	Pedestal
	PEDECNT	Pedestal Control
	PFP	Pilot Frame Position
	PGC	Pulse Generator Comparator
	POR	Power On Reset
	POSCOM	Position Common
	PREAMP	Pre-AMP
	PREBLK	Pre-Blanking
	PT	Protect for V Voltage
	PWM	Pulse Width Modulation
	PWMB	Pulse Width Modulation Pulse
Q	Q2H	Source Output Select
R	R/B	Read/Busy
	R/L	Direction Select for Data Transmition
	RA	Recording AMP
	RA1	Rec AMP 1
	RAC AC	Rec Audio Current
	RAD	Read Address Data
	RAE	Read Address Enable
	RB	Read Busy
	RB	Read Busy
	RCB	R Carrier Balance
	RE	Read Enable
	REC CC	Rec Current Control
	REC CCNT	Rec Current Control
	RECCTRL	Recording Control Pulse
	RECI	Rec Amp Switch
	RENCF	Lens Control (Forward)
	RENCR	Lens Control (Reverse)
	RERASE	Rotary Erase Head
	RGBIV1-2	1V Inverted Signal 1-2
	RST	Reset
	RSTB	R Strobe
	RSTPWD	Reset Power Down Input
	RSTR	Reset Read
	RSTW	Reset Write
	RVCO	Resister for Oscillation
	RW	Read Write
	RWAE	Read Write Enable
S	S PHOT	Supply Photo Transistor
	S/S	Start/Stop
	SBD	Serial Data
	SBI	Serial Data Input
	SBO	Serial Data Output
	SCAN0-5	Key Scan 0-5
	SCK	Serial Clock
	SCR	Search
	"SCR, S.C.R"	Still Cue Review
	SEG.	Segment
	SH/IRIS	Shutter/Iris Control
	SIOC	Serial In/Out Control
	SNS LED	Sensor LED
	SO	Serial Data Output
	SPA	ATF Sampling Pulse
	SPEN	8 Bit Data Enable
	SPST	8 Bit Data Strobe
	SRT	Start
	SSA	Start Sync block Area
	STAB	Safety Tab Switch
	STB	Stand by Signal
	STB	Strobe
T	T	Tele (Zoom)
	T PHOT	Take-up Photo Transistor
	TBC	Time Base Conntrol
	TFT	Thim Film Transistor
	TH	Thermostat for Battery
	TI	Test Mode Select
	TL	Torque Limit
	TM	Sub Code
	TMD	Sub Code Data
	TRE	Tracking Error Signal
	TREEL	Take-up Reel
	TRFIX	Tracking Fix
	TRIWAVE	Tracking Wave
	TRP	Tracking Position
	TRP	Trap
	TSR	Head Switching Refference
	TST	Time Scale Transfer
U	U/V SEL	R-Y/B-Y Select Signal
	UNLOAD	Un-Loading
	UNRE	Microprocessor Read Enable
	UNWE	Microprocessor Write Enable
	UV	R-Y/B-Y
	UV SEL	R-Y/B-Y Select Signal
V	V1-V4	V.CCD Drive Pulse
	VB	VH Filter Switching
	VCE	Power Terminal
	VCO	Voltage Control Oscillator
	VCP	Shift Clock Output for Vertical Drive
	VCTRL	Voltage Charge Control
	VD	Vertical Drive Pulse
	VDDX	X Drive Power for Colour LCD
	VDDXY	XY Drive Power for Colour LCD
	VDDY	Y Drive Power for Colour LCD
	VDREC	Video Delayed Rec
	Vgg	Voltage for Gate IC
	Vgl	Gate off Voltage
	VID	Video Signal Out
	VIN	Video In
	VITC	Vertical Interval Time Code
	VL	Low Voltage
	VLC	Variable Length Cording
	VLOCKP	Artificial Sync Pulse
	VLP	Artificial Sync Pulse
	VM	Motor Voltage
	VMD	Velocity Mode Data
	VMD1-3	Electric Shutter Mode
	VMODE	NTSC/PAL Select Switch
	VMVH	VH Filter Switching
	VORP	Video Overlap
	VRB	Voltage Refference Bottom
	VRBS	Voltage Refference Bottom Output
	VREF1R3V	Refference Voltage 1.3V
	VREF3R3V	Refference Voltage 3.3V
	VREFH	Refference Voltage High Side
	VREFL	Refference Voltage Low Side
	VRI	Refference Voltage Input
	VRO	Refference Voltage Output
	VRT	Voltage Refference Top
	VRTS	Voltage Refference Top Output
	VSS	Vertical Sync Signal
W	W	Wide (Zoom)
	WAD/WAE	Write Address Enable
	WB	White Balance
	WE	Write Enable
	WEM	Memory Write Enable
	WHD	Wide Horizontal Drive Pulse
X	XP	FG Logic Reset
Y	YCE	Cylinder Error Code
	YNCST	Noize Canceller
	YNR	Noise Reduction
Z	Z.ENC	Zoom Encoder
	Z.MIC	Zoom Mic
	ZENC	Zoom Encoder Output
	ZMT(+)/(-)	Zoom Motor (+)/(-)
	ZMTER	Zoom Motor Tele Side
	ZMW	Zoom Motor Wide Side



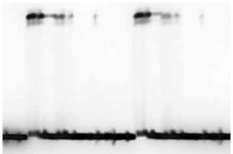
CL902 STOP
3.0 Vp-p (20µsec/div.)
COLOUR BAR



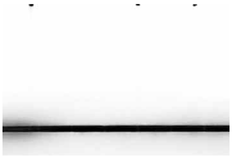
CL903 STOP
3.0 Vp-p (20µsec/div.)
COLOUR BAR



CL904 STOP
4.6 Vp-p (20µsec/div.)
COLOUR BAR

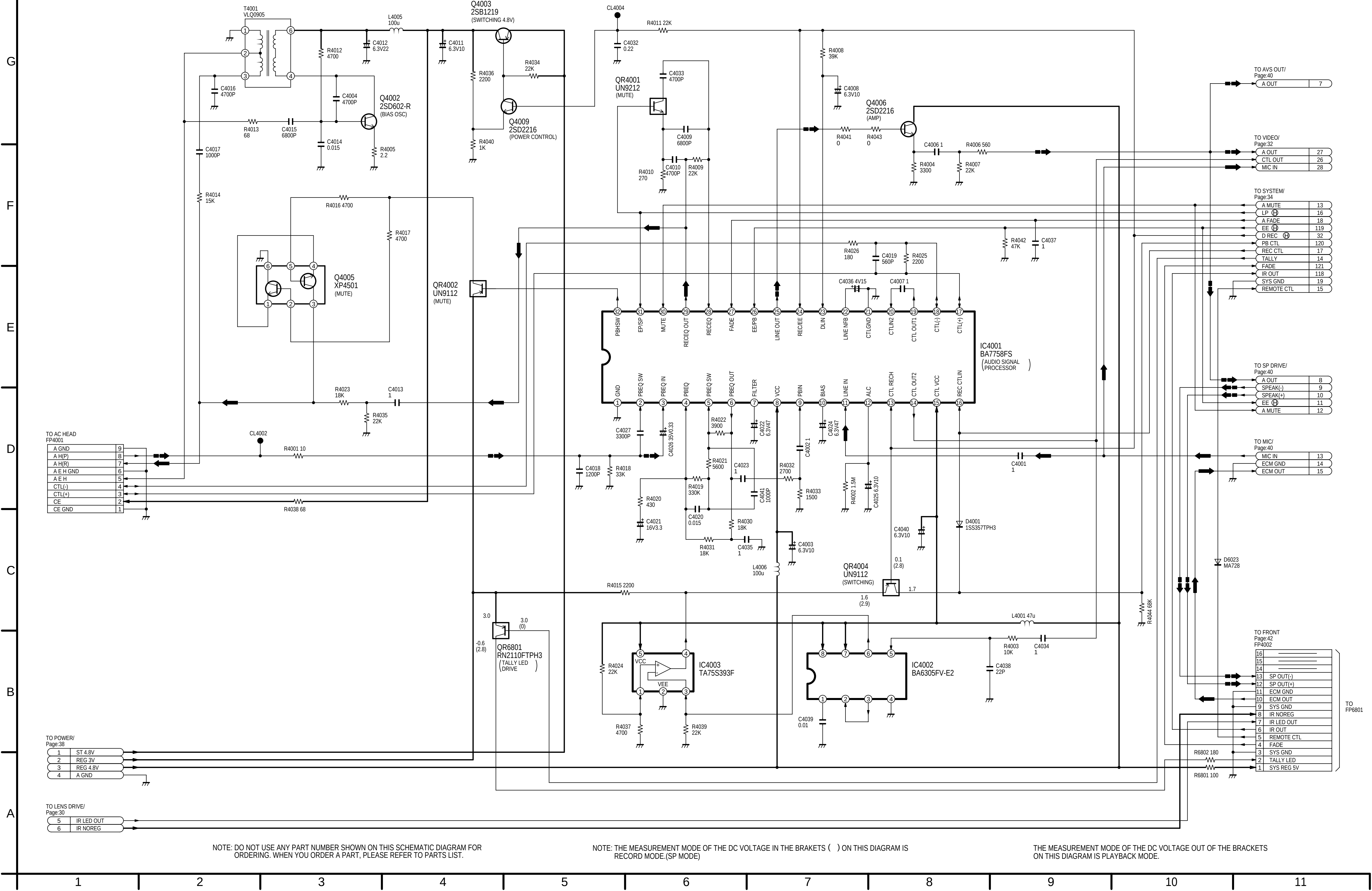


IC901-10 STOP
3.0 Vp-p (20µsec/div.)
COLOUR BAR



IC901-26, 27STOP
3.4 Vp-p (20µsec/div.)
COLOUR BAR

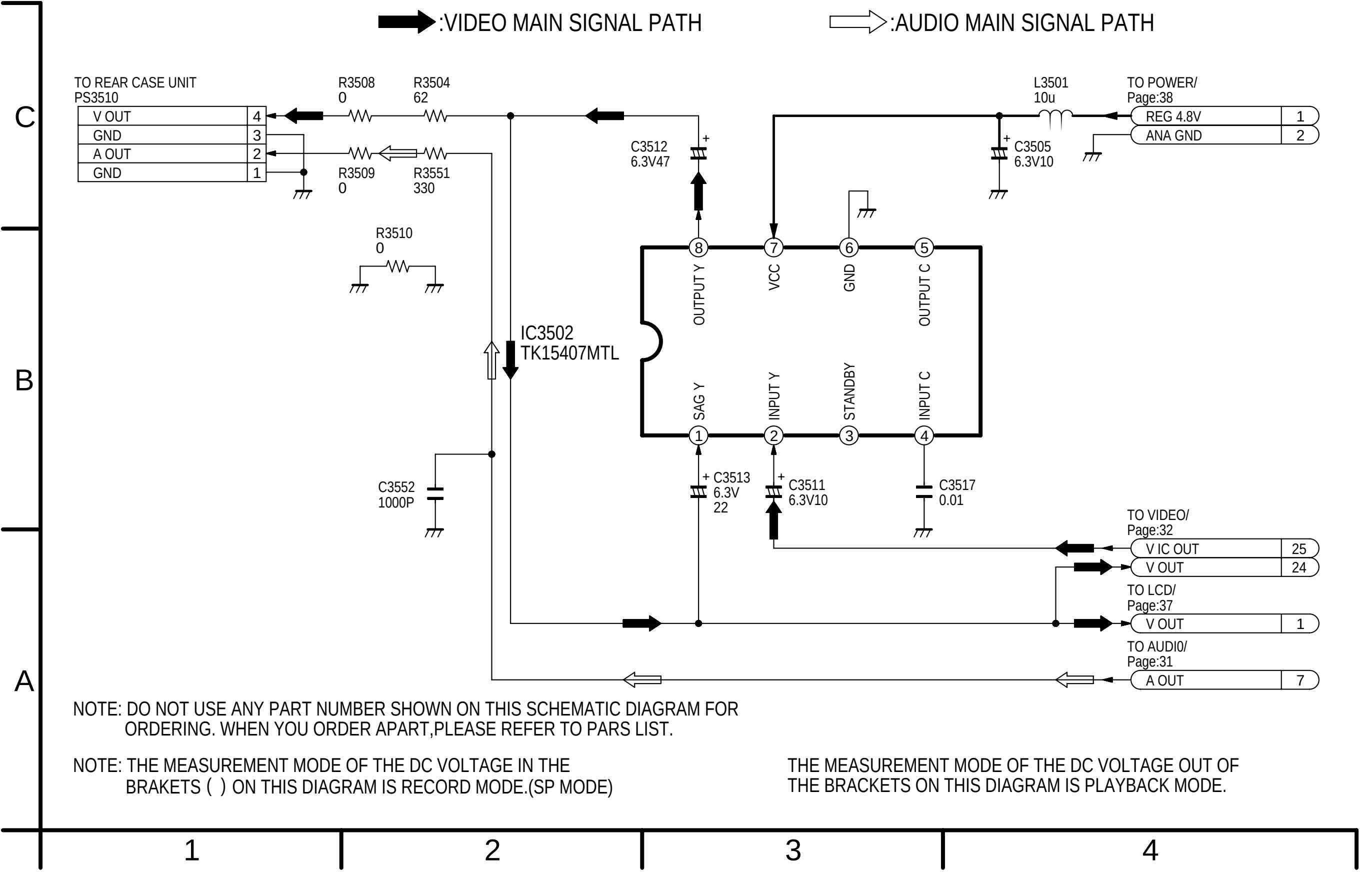
➡ :AUDIO MAIN SIGNAL PATH IN REC MODE ➡ :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


T4001
VLQ0905
L4005 100u
C4012 6.3V22
C4011 6.3V10
Q4003 2SB1219 (SWITCHING 4.8V)
CL4004
R4011 22K
C4032 0.22
R4012 4700
C4016 4700P
C4004 4700P
Q4002 2SD602-R (BIAS OSC)
R4013 68
C4015 6800P
C4014 0.015
R4005 2.2
C4017 1000P
R4014 15K
R4036 2200
R4034 22K
Q4009 2SD2216 (POWER CONTROL)
R4040 1K
QR4001 UN9212 (MUTE)
C4033 4700P
C4009 6800P
R4010 270
C4010 4700P
R4009 22K
R4008 39K
C4008 6.3V10
Q4006 2SD2216 (AMP)
R4041 0
R4043 0
C4006 1
R4006 560
R4004 3300
R4007 22K
R4016 4700
R4017 4700
Q4005 XP4501 (MUTE)
QR4002 UN9112 (MUTE)
R4026 180
C4019 560P
R4025 2200
R4042 47K
C4037 1
C4036 4V15
C4007 1
IC4001 BA7758FS (AUDIO SIGNAL PROCESSOR)
32 PBHSW
31 EP/SP
30 MUTE
29 RECEQ OUT
28 RECEQ
27 FADE
26 EE/PB
25 LINE OUT
24 REC/EE
23 DLIN
22 LINE NFB
21 CTLGND
20 CTLIN2
19 CTL OUT1
18 CTL(-)
17 CTL(+)
1 GND
2 PBEQ SW
3 PBEQ IN
4 PBEQ
5 PBEQ SW
6 PBEQ OUT
7 FILTER
8 VCC
9 PBIN
10 BIAS
11 LINE IN
12 ALC
13 CTL RECH
14 CTL OUT2
15 CTL VCC
16 REC CTLIN
R4023 18K
C4013 1
R4035 22K
TO AC HEAD
FP4001
9 A GND
8 A H(P)
7 A H(R)
6 A E H GND
5 A E H
4 CTL(-)
3 CTL(+)
2 CE
1 CE GND
CL4002
R4001 10
R4038 68
C4027 3300P
C4026 35V0.33
R4022 3900
C4022 6.3V47
C4024 6.3V47
C4002 1
R4021 5600
C4023 1
R4032 2700
C4018 1200P
R4018 33K
R4019 330K
C4041 1000P
R4033 1500
R4002 1.5M
C4025 6.3V10
C4001 1
R4020 430
C4021 16V3.3
C4020 0.015
R4030 18K
R4031 18K
C4035 1
C4003 6.3V10
C4040 6.3V10
D4001 1SS357TPH3
L4006 100u
QR4004 UN9112 (SWITCHING)
0.1 (2.8)
1.6 (2.9)
1.7
R4015 2200
R4044 68K
D6023 MA728
3.0
3.0 (0)
-0.6 (2.8)
QR6801 RN2110FTPH3 (TALLY LED DRIVE)
L4001 47u
R4003 10K
C4034 1
C4038 22P
R4024 22K
IC4003 TA75S393F
VCC
VEE
IC4002 BA6305FV-E2
C4039 0.01
R4037 4700
R4039 22K
TO AVS OUT/ Page:40
A OUT 7
TO VIDEO/ Page:32
A OUT 27
CTL OUT 26
MIC IN 28
TO SYSTEM/ Page:34
A MUTE 13
LP Ⓗ 16
A FADE 18
EE Ⓗ 119
D REC Ⓗ 32
PB CTL 120
REC CTL 17
TALLY 14
FADE 121
IR OUT 118
SYS GND 19
REMOTE CTL 15
TO SP DRIVE/ Page:40
A OUT 8
SPEAK(-) 9
SPEAK(+) 10
EE Ⓗ 11
A MUTE 12
TO MIC/ Page:40
MIC IN 13
ECM GND 14
ECM OUT 15
TO FRONT Page:42 FP4002
16
15
14
13 SP OUT(-)
12 SP OUT(+)
11 ECM GND
10 ECM OUT
9 SYS GND
8 IR NOREG
7 IR LED OUT
6 IR OUT
5 REMOTE CTL
4 FADE
3 SYS GND
2 TALLY LED
1 SYS REG 5V
TO FP6801
R6802 180
R6801 100
TO POWER/ Page:38
1 ST 4.8V
2 REG 3V
3 REG 4.8V
4 A GND
TO LENS DRIVE/ Page:30
5 IR LED OUT
6 IR NOREG
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

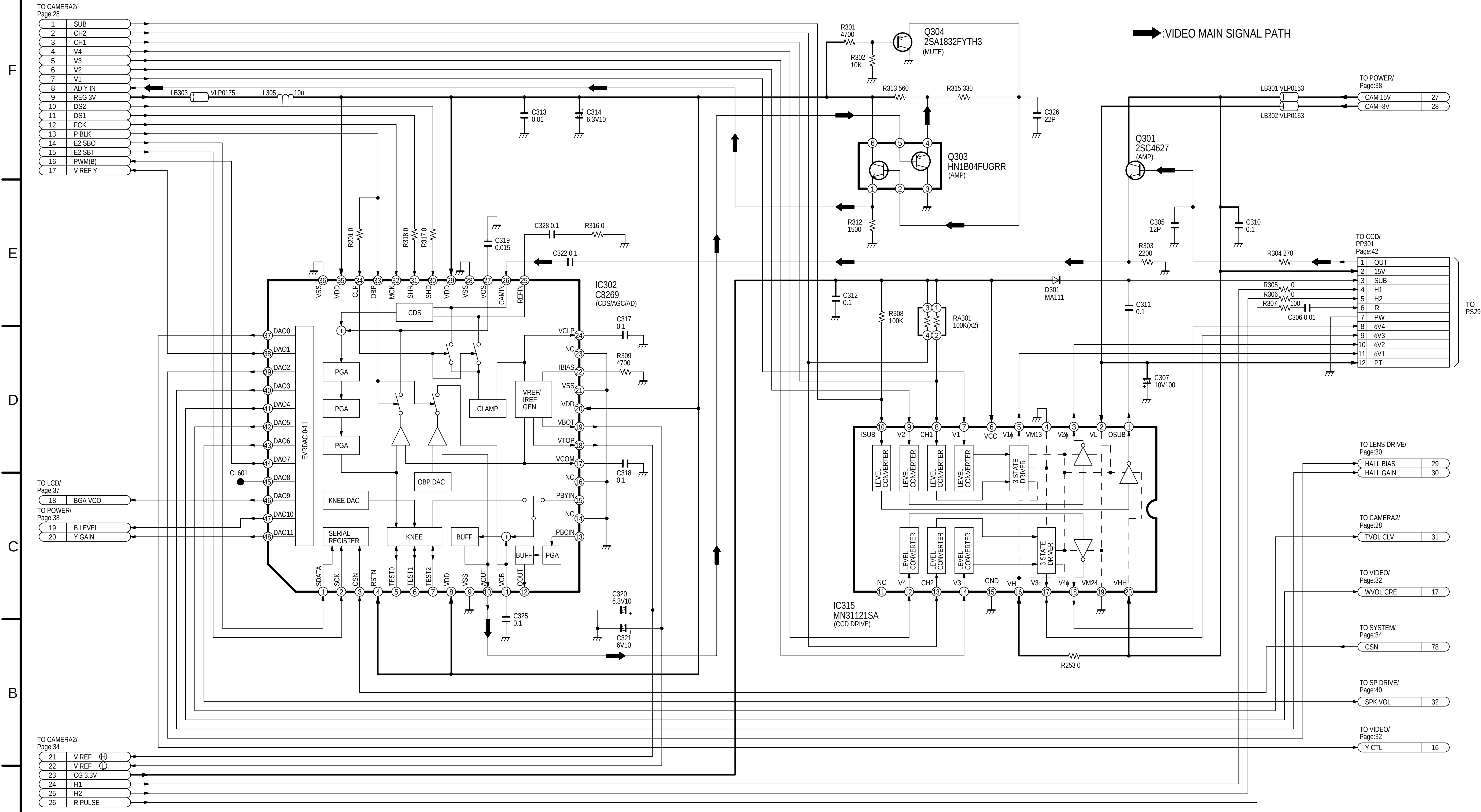


:VIDEO MAIN SIGNAL PATH
:AUDIO MAIN SIGNAL PATH
TO REAR CASE UNIT
PS3510
V OUT 4
GND 3
A OUT 2
GND 1
R3508 0
R3504 62
R3509 0
R3551 330
R3510 0
C3512 6.3V47
L3501 10u
TO POWER/ Page:38
REG 4.8V 1
ANA GND 2
C3505 6.3V10
IC3502
TK15407MTL
OUTPUT Y
VCC
GND
OUTPUT C
SAG Y
INPUT Y
STANDBY
INPUT C
C3552 1000P
C3513 6.3V 22
C3511 6.3V10
C3517 0.01
TO VIDEO/ Page:32
V IC OUT 25
V OUT 24
TO LCD/ Page:37
V OUT 1
TO AUDIO/ Page:31
A OUT 7
C
B
A
1
2
3
4

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER APART,PLEASE REFER TO PARS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ( ) ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.


:VIDEO MAIN SIGNAL PATH
TO CAMERA2/
Page:28
1 SUB
2 CH2
3 CH1
4 V4
5 V3
6 V2
7 V1
8 AD Y IN
9 REG 3V
10 DS2
11 DS1
12 FCK
13 P BLK
14 E2 SBO
15 E2 SBT
16 PWM(B)
17 V REF Y
LB303 VLP0175
L305 10u
C313 0.01
C314 6.3V10
R301 4700
R302 10K
Q304
2SA1832FYTH3
(MUTE)
R313 560
R315 330
C326 22P
Q303
HN1B04FUGRR
(AMP)
R312 1500
LB301 VLP0153
LB302 VLP0153
TO POWER/
Page:38
CAM 15V 27
CAM -8V 28
Q301
2SC4627
(AMP)
C305 12P
C310 0.1
R303 2200
R304 270
TO CCD/
PP301
Page:42
1 OUT
2 15V
3 SUB
4 H1
5 H2
6 R
7 PW
8 φV4
9 φV3
10 φV2
11 φV1
12 PT
TO PS291
R305 0
R306 0
R307 100
C306 0.01
D301 MA111
C312 0.1
R308 100K
RA301 100K(X2)
C311 0.1
C307 10V100
R201 0
R318 0
R317 0
C319 0.015
C328 0.1
R316 0
C322 0.1
IC302
C8269
(CDS/AGC/AD)
VSS VDD CLP OBP MCK SHR SHD VDD VSS VOS CAMIN REFIN
CDS
PGA
PGA
PGA
CLAMP
VREF/ IREF GEN.
OBP DAC
KNEE DAC
KNEE
BUFF
BUFF
PGA
SERIAL REGISTER
EVRDAC 0-11
DAO0 DAO1 DAO2 DAO3 DAO4 DAO5 DAO6 DAO7 DAO8 DAO9 DAO10 DAO11
VCLP NC IBIAS VSS VDD VBOT VTOP VCOM NC PBYIN NC PBCIN
SDATA SCK CSN RSTN TEST0 TEST1 TEST2 VDD VSS AOUT VOB COUT
C317 0.1
R309 4700
C318 0.1
C320 6.3V10
C321 6V10
C325 0.1
CL601
TO LCD/
Page:37
18 BGA VCO
TO POWER/
Page:38
19 B LEVEL
20 Y GAIN
TO CAMERA2/
Page:34
21 V REF Ⓗ
22 V REF Ⓛ
23 CG 3.3V
24 H1
25 H2
26 R PULSE
IC315
MN31121SA
(CCD DRIVE)
ISUB V2 CH1 V1 VCC V1φ VM13 V2φ VL OSUB
NC V4 CH2 V3 GND VH V3φ V4φ VM24 VHH
LEVEL CONVERTER
3 STATE DRIVER
R253 0
TO LENS DRIVE/
Page:30
HALL BIAS 29
HALL GAIN 30
TO CAMERA2/
Page:28
TVOL CLV 31
TO VIDEO/
Page:32
WVOL CRE 17
TO SYSTEM/
Page:34
CSN 78
TO SP DRIVE/
Page:40
SPK VOL 32
TO VIDEO/
Page:32
Y CTL 16
F E D C B A
1 2 3 4 5 6 7 8 9 10

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.